Table 7

```
REMARK coordinates from restrained individual B-factor refinement
REMARK refinement resolution: 30.0 - 2.4 A
REMARK starting r= 0.2180 free_r= 0.2827
REMARK final    r= 0.2172 free_r= 0.2823
REMARK B rmsd for bonded mainchain atoms=  1.271  target= 1.5
REMARK B rmsd for bonded sidechain atoms=  2.209  target= 2.0
REMARK B rmsd for angle mainchain atoms=  2.056  target= 2.0
REMARK B rmsd for angle sidechain atoms=  3.161  target= 2.5
REMARK wa= 4.13561
REMARK rweight=0.1
REMARK target= mlf  steps= 20
REMARK sg= P4(1)2(1)2 a= 71.14 b= 71.14 c= 130.14 alpha= 90 beta= 90 gamma= 90
REMARK parameter file 1  : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2  : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3  : mse.par
REMARK parameter file 4  : ion.param
REMARK molecular structure file: 80e1c1_6.psf
REMARK input coordinates: 80e1c1_6bmin.pdb
REMARK reflection file= 80e1c1_semet_high_p41212.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 2.4
REMARK initial B-factor correction applied to fobs :
REMARK   B11=  -1.154 B22=  -1.154 B33=   2.308
REMARK   B12=   0.000 B13=   0.000 B23=   0.000
REMARK B-factor correction applied to coordinate array B:    0.113
REMARK bulk solvent: (Mask) density level= 0.347406 e/A^3, B-factor= 23.6287 A^2
REMARK reflections with |Fobs|/sigma_F < 2.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range:    13690 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0):   229 (   1.7 % )
REMARK number of reflections rejected:                         458 (   3.3 % )
REMARK total number of reflections used:                     13003 (  95.0 % )
REMARK number of reflections in working set:                 11668 (  85.2 % )
REMARK number of reflections in test set:                     1335 (   9.8 % )
REMARK FILENAME="80e1c1_6bbind.pdb"
REMARK DATE:Nov-07-2000  11:13:10       created by user: hlewis
REMARK Written by CNX VERSION:2000
ATOM      1  CB  MSE A   3      -6.868   4.922  16.453  1.00 71.36      A    C
ATOM      2  CG  MSE A   3      -8.408   5.107  16.513  1.00 76.56      A    C
ATOM      3  SE  MSE A   3      -9.249   6.876  15.979  1.00 84.43      A    S
ATOM      4  CE  MSE A   3      -8.302   7.284  14.319  1.00 80.12      A    C
ATOM      5  C   MSE A   3      -7.066   4.035  14.100  1.00 66.84      A    C
ATOM      6  O   MSE A   3      -6.786   4.980  13.364  1.00 65.69      A    O
ATOM      7  N   MSE A   3      -4.887   3.957  15.310  1.00 67.54      A    N
ATOM      8  CA  MSE A   3      -6.364   3.858  15.450  1.00 68.12      A    C
ATOM      9  N   LYS A   4      -7.941   3.093  13.751  1.00 66.03      A    N
ATOM     10  CA  LYS A   4      -8.721   3.230  12.532  1.00 65.39      A    C
ATOM     11  CB  LYS A   4      -9.043   1.890  11.893  1.00 64.92      A    C
ATOM     12  CG  LYS A   4      -9.294   2.033  10.398  1.00 65.31      A    C
ATOM     13  CD  LYS A   4      -9.874   0.780   9.771  1.00 65.11      A    C
ATOM     14  CE  LYS A   4     -11.289   0.512  10.264  1.00 63.54      A    C
ATOM     15  NZ  LYS A   4     -11.885  -0.610   9.500  1.00 62.07      A    N
ATOM     16  C   LYS A   4      -9.980   3.839  13.126  1.00 65.49      A    C
ATOM     17  O   LYS A   4     -10.618   3.232  13.986  1.00 65.01      A    O
ATOM     18  N   MSE A   5     -10.329   5.038  12.674  1.00 66.48      A    N
ATOM     19  CA  MSE A   5     -11.465   5.773  13.233  1.00 67.61      A    C
ATOM     20  CB  MSE A   5     -11.200   7.283  13.041  1.00 74.35      A    C
```

Table 7

ATOM	21	CG	MSE	A	5	-11.794	8.202	14.131	1.00	84.97	A C
ATOM	22	SE	MSE	A	5	-10.574	9.523	15.053	1.00	100.01	A S
ATOM	23	CE	MSE	A	5	-11.230	9.361	16.888	1.00	94.80	A C
ATOM	24	C	MSE	A	5	-12.868	5.398	12.735	1.00	63.94	A C
ATOM	25	O	MSE	A	5	-13.026	4.810	11.665	1.00	62.94	A O
ATOM	26	N	ASN	A	6	-13.874	5.724	13.549	1.00	60.57	A N
ATOM	27	CA	ASN	A	6	-15.280	5.489	13.216	1.00	57.44	A C
ATOM	28	CB	ASN	A	6	-16.191	5.957	14.364	1.00	58.29	A C
ATOM	29	CG	ASN	A	6	-16.438	4.876	15.403	1.00	58.75	A C
ATOM	30	OD1	ASN	A	6	-17.325	4.044	15.244	1.00	59.52	A O
ATOM	31	ND2	ASN	A	6	-15.646	4.877	16.467	1.00	59.36	A N
ATOM	32	C	ASN	A	6	-15.602	6.304	11.964	1.00	55.31	A C
ATOM	33	O	ASN	A	6	-16.233	5.820	11.035	1.00	54.02	A O
ATOM	34	N	VAL	A	7	-15.154	7.553	11.965	1.00	53.15	A N
ATOM	35	CA	VAL	A	7	-15.359	8.472	10.854	1.00	52.76	A C
ATOM	36	CB	VAL	A	7	-15.160	9.901	11.327	1.00	52.39	A C
ATOM	37	CG1	VAL	A	7	-15.387	10.853	10.189	1.00	53.06	A C
ATOM	38	CG2	VAL	A	7	-16.087	10.184	12.486	1.00	52.72	A C
ATOM	39	C	VAL	A	7	-14.341	8.186	9.756	1.00	52.16	A C
ATOM	40	O	VAL	A	7	-13.142	8.217	10.021	1.00	52.61	A O
ATOM	41	N	GLU	A	8	-14.798	7.942	8.527	1.00	51.16	A N
ATOM	42	CA	GLU	A	8	-13.867	7.622	7.437	1.00	50.82	A C
ATOM	43	CB	GLU	A	8	-14.606	7.007	6.231	1.00	50.18	A C
ATOM	44	CG	GLU	A	8	-15.199	7.981	5.201	1.00	51.37	A C
ATOM	45	CD	GLU	A	8	-14.158	8.711	4.295	1.00	52.39	A C
ATOM	46	OE1	GLU	A	8	-13.131	8.113	3.877	1.00	49.32	A O
ATOM	47	OE2	GLU	A	8	-14.404	9.897	3.980	1.00	52.24	A O
ATOM	48	C	GLU	A	8	-12.942	8.735	6.930	1.00	50.56	A C
ATOM	49	O	GLU	A	8	-11.847	8.432	6.452	1.00	50.34	A O
ATOM	50	N	SER	A	9	-13.351	10.004	6.999	1.00	49.55	A N
ATOM	51	CA	SER	A	9	-12.460	11.051	6.501	1.00	48.80	A C
ATOM	52	CB	SER	A	9	-13.147	12.419	6.465	1.00	48.74	A C
ATOM	53	OG	SER	A	9	-13.565	12.833	7.748	1.00	50.68	A O
ATOM	54	C	SER	A	9	-11.223	11.106	7.384	1.00	48.10	A C
ATOM	55	O	SER	A	9	-10.167	11.546	6.937	1.00	48.01	A O
ATOM	56	N	PHE	A	10	-11.362	10.641	8.627	1.00	46.68	A N
ATOM	57	CA	PHE	A	10	-10.250	10.616	9.572	1.00	45.69	A C
ATOM	58	CB	PHE	A	10	-10.732	10.328	11.005	1.00	45.62	A C
ATOM	59	CG	PHE	A	10	-11.605	11.404	11.602	1.00	44.69	A C
ATOM	60	CD1	PHE	A	10	-11.759	12.644	10.976	1.00	44.47	A C
ATOM	61	CD2	PHE	A	10	-12.268	11.179	12.802	1.00	44.15	A C
ATOM	62	CE1	PHE	A	10	-12.556	13.635	11.532	1.00	43.44	A C
ATOM	63	CE2	PHE	A	10	-13.071	12.168	13.376	1.00	43.54	A C
ATOM	64	CZ	PHE	A	10	-13.215	13.400	12.735	1.00	44.98	A C
ATOM	65	C	PHE	A	10	-9.265	9.523	9.167	1.00	45.71	A C
ATOM	66	O	PHE	A	10	-8.128	9.491	9.637	1.00	45.51	A O
ATOM	67	N	ASN	A	11	-9.705	8.634	8.286	1.00	45.64	A N
ATOM	68	CA	ASN	A	11	-8.872	7.528	7.821	1.00	45.96	A C
ATOM	69	CB	ASN	A	11	-9.699	6.234	7.806	1.00	43.14	A C
ATOM	70	CG	ASN	A	11	-10.213	5.855	9.204	1.00	43.74	A C
ATOM	71	OD1	ASN	A	11	-11.326	5.320	9.353	1.00	42.00	A O
ATOM	72	ND2	ASN	A	11	-9.401	6.128	10.235	1.00	40.60	A N
ATOM	73	C	ASN	A	11	-8.253	7.818	6.452	1.00	46.50	A C
ATOM	74	O	ASN	A	11	-7.699	6.930	5.804	1.00	47.51	A O
ATOM	75	N	LEU	A	12	-8.349	9.077	6.036	1.00	46.53	A N
ATOM	76	CA	LEU	A	12	-7.793	9.554	4.776	1.00	46.18	A C
ATOM	77	CB	LEU	A	12	-8.849	10.383	4.028	1.00	47.41	A C

Table 7

ATOM	78	CG	LEU	A	12	-8.630	11.100	2.684	1.00	46.04	A	C
ATOM	79	CD1	LEU	A	12	-8.309	12.554	2.935	1.00	46.23	A	C
ATOM	80	CD2	LEU	A	12	-7.559	10.395	1.859	1.00	43.35	A	C
ATOM	81	C	LEU	A	12	-6.582	10.422	5.118	1.00	46.39	A	C
ATOM	82	O	LEU	A	12	-6.702	11.391	5.870	1.00	45.79	A	O
ATOM	83	N	ASP	A	13	-5.417	10.058	4.588	1.00	46.29	A	N
ATOM	84	CA	ASP	A	13	-4.187	10.808	4.833	1.00	46.58	A	C
ATOM	85	CB	ASP	A	13	-2.974	9.978	4.413	1.00	47.30	A	C
ATOM	86	CG	ASP	A	13	-1.656	10.691	4.676	1.00	48.48	A	C
ATOM	87	OD1	ASP	A	13	-1.558	11.894	4.348	1.00	49.17	A	O
ATOM	88	OD2	ASP	A	13	-0.720	10.046	5.194	1.00	47.02	A	O
ATOM	89	C	ASP	A	13	-4.215	12.122	4.046	1.00	45.97	A	C
ATOM	90	O	ASP	A	13	-3.901	12.150	2.859	1.00	45.54	A	O
ATOM	91	N	HIS	A	14	-4.588	13.201	4.734	1.00	45.85	A	N
ATOM	92	CA	HIS	A	14	-4.707	14.530	4.143	1.00	46.12	A	C
ATOM	93	CB	HIS	A	14	-5.341	15.504	5.140	1.00	45.92	A	C
ATOM	94	CG	HIS	A	14	-6.806	15.284	5.353	1.00	46.39	A	C
ATOM	95	CD2	HIS	A	14	-7.858	16.126	5.232	1.00	47.38	A	C
ATOM	96	ND1	HIS	A	14	-7.322	14.085	5.792	1.00	45.95	A	N
ATOM	97	CE1	HIS	A	14	-8.628	14.198	5.939	1.00	47.93	A	C
ATOM	98	NE2	HIS	A	14	-8.981	15.428	5.607	1.00	49.18	A	N
ATOM	99	C	HIS	A	14	-3.425	15.144	3.641	1.00	45.89	A	C
ATOM	100	O	HIS	A	14	-3.457	16.137	2.910	1.00	44.84	A	O
ATOM	101	N	THR	A	15	-2.295	14.582	4.043	1.00	46.66	A	N
ATOM	102	CA	THR	A	15	-1.023	15.128	3.601	1.00	47.85	A	C
ATOM	103	CB	THR	A	15	0.098	14.851	4.623	1.00	47.66	A	C
ATOM	104	OG1	THR	A	15	0.264	13.437	4.788	1.00	48.34	A	O
ATOM	105	CG2	THR	A	15	-0.245	15.483	5.968	1.00	47.02	A	C
ATOM	106	C	THR	A	15	-0.618	14.573	2.241	1.00	48.01	A	C
ATOM	107	O	THR	A	15	0.362	15.028	1.656	1.00	47.86	A	O
ATOM	108	N	LYS	A	16	-1.404	13.626	1.726	1.00	48.25	A	N
ATOM	109	CA	LYS	A	16	-1.113	12.994	0.441	1.00	48.46	A	C
ATOM	110	CB	LYS	A	16	-0.906	11.499	0.667	1.00	49.23	A	C
ATOM	111	CG	LYS	A	16	0.385	11.203	1.428	1.00	50.99	A	C
ATOM	112	CD	LYS	A	16	0.515	9.727	1.766	1.00	51.84	A	C
ATOM	113	CE	LYS	A	16	1.774	9.456	2.567	1.00	51.64	A	C
ATOM	114	NZ	LYS	A	16	1.889	8.004	2.875	1.00	52.43	A	N
ATOM	115	C	LYS	A	16	-2.132	13.227	-0.691	1.00	48.66	A	C
ATOM	116	O	LYS	A	16	-2.096	12.562	-1.747	1.00	48.82	A	O
ATOM	117	N	VAL	A	17	-3.033	14.179	-0.475	1.00	46.84	A	N
ATOM	118	CA	VAL	A	17	-4.031	14.505	-1.473	1.00	44.74	A	C
ATOM	119	CB	VAL	A	17	-5.425	14.519	-0.850	1.00	43.52	A	C
ATOM	120	CG1	VAL	A	17	-5.664	13.189	-0.146	1.00	42.22	A	C
ATOM	121	CG2	VAL	A	17	-5.569	15.694	0.101	1.00	42.32	A	C
ATOM	122	C	VAL	A	17	-3.677	15.862	-2.055	1.00	44.02	A	C
ATOM	123	O	VAL	A	17	-3.042	16.665	-1.379	1.00	42.31	A	O
ATOM	124	N	LYS	A	18	-4.081	16.118	-3.299	1.00	43.71	A	N
ATOM	125	CA	LYS	A	18	-3.737	17.379	-3.948	1.00	44.83	A	C
ATOM	126	CB	LYS	A	18	-3.042	17.086	-5.284	1.00	45.61	A	C
ATOM	127	CG	LYS	A	18	-2.534	18.318	-6.040	1.00	46.88	A	C
ATOM	128	CD	LYS	A	18	-2.480	18.067	-7.559	1.00	48.34	A	C
ATOM	129	CE	LYS	A	18	-1.657	19.151	-8.289	1.00	50.04	A	C
ATOM	130	NZ	LYS	A	18	-1.814	19.065	-9.786	1.00	48.57	A	N
ATOM	131	C	LYS	A	18	-4.862	18.392	-4.183	1.00	44.32	A	C
ATOM	132	O	LYS	A	18	-6.031	18.118	-3.974	1.00	43.53	A	O
ATOM	133	N	ALA	A	19	-4.443	19.576	-4.637	1.00	46.06	A	N
ATOM	134	CA	ALA	A	19	-5.288	20.732	-4.961	1.00	43.47	A	C

Table 7

ATOM	135	CB	ALA	A	19	-4.792	21.351	-6.280	1.00	44.65	A	C
ATOM	136	C	ALA	A	19	-6.784	20.406	-4.989	1.00	41.77	A	C
ATOM	137	O	ALA	A	19	-7.324	20.025	-3.938	1.00	41.14	A	O
ATOM	138	N	PRO	A	20	-7.491	20.574	-6.144	1.00	40.57	A	N
ATOM	139	CD	PRO	A	20	-7.293	21.367	-7.381	1.00	39.70	A	C
ATOM	140	CA	PRO	A	20	-8.910	20.221	-6.028	1.00	37.76	A	C
ATOM	141	CB	PRO	A	20	-9.588	21.264	-6.897	1.00	37.65	A	C
ATOM	142	CG	PRO	A	20	-8.682	21.318	-8.063	1.00	38.78	A	C
ATOM	143	C	PRO	A	20	-9.122	18.822	-6.573	1.00	36.85	A	C
ATOM	144	O	PRO	A	20	-8.362	18.369	-7.435	1.00	34.89	A	O
ATOM	145	N	TYR	A	21	-10.163	18.150	-6.083	1.00	35.01	A	N
ATOM	146	CA	TYR	A	21	-10.459	16.793	-6.522	1.00	34.33	A	C
ATOM	147	CB	TYR	A	21	-9.376	15.825	-5.994	1.00	35.10	A	C
ATOM	148	CG	TYR	A	21	-9.402	15.582	-4.484	1.00	36.53	A	C
ATOM	149	CD1	TYR	A	21	-10.463	14.883	-3.886	1.00	36.96	A	C
ATOM	150	CE1	TYR	A	21	-10.516	14.682	-2.499	1.00	36.86	A	C
ATOM	151	CD2	TYR	A	21	-8.387	16.073	-3.650	1.00	34.90	A	C
ATOM	152	CE2	TYR	A	21	-8.434	15.872	-2.262	1.00	35.36	A	C
ATOM	153	CZ	TYR	A	21	-9.506	15.173	-1.696	1.00	36.58	A	C
ATOM	154	OH	TYR	A	21	-9.575	14.954	-0.340	1.00	36.11	A	O
ATOM	155	C	TYR	A	21	-11.838	16.352	-6.027	1.00	33.12	A	C
ATOM	156	O	TYR	A	21	-12.397	16.972	-5.132	1.00	33.84	A	O
ATOM	157	N	VAL	A	22	-12.377	15.294	-6.634	1.00	31.05	A	N
ATOM	158	CA	VAL	A	22	-13.658	14.714	-6.231	1.00	29.68	A	C
ATOM	159	CB	VAL	A	22	-14.698	14.792	-7.347	1.00	27.56	A	C
ATOM	160	CG1	VAL	A	22	-15.915	14.024	-6.966	1.00	23.88	A	C
ATOM	161	CG2	VAL	A	22	-15.036	16.242	-7.632	1.00	27.38	A	C
ATOM	162	C	VAL	A	22	-13.335	13.253	-5.914	1.00	29.68	A	C
ATOM	163	O	VAL	A	22	-12.940	12.524	-6.789	1.00	28.84	A	O
ATOM	164	N	ARG	A	23	-13.491	12.842	-4.655	1.00	29.84	A	N
ATOM	165	CA	ARG	A	23	-13.148	11.480	-4.232	1.00	29.85	A	C
ATOM	166	CB	ARG	A	23	-12.041	11.578	-3.151	1.00	29.30	A	C
ATOM	167	CG	ARG	A	23	-11.702	10.288	-2.379	1.00	30.43	A	C
ATOM	168	CD	ARG	A	23	-10.655	10.530	-1.232	1.00	30.96	A	C
ATOM	169	NE	ARG	A	23	-11.263	11.178	-0.070	1.00	32.48	A	N
ATOM	170	CZ	ARG	A	23	-11.882	10.524	0.910	1.00	33.60	A	C
ATOM	171	NH1	ARG	A	23	-11.967	9.196	0.895	1.00	31.79	A	N
ATOM	172	NH2	ARG	A	23	-12.446	11.198	1.893	1.00	34.30	A	N
ATOM	173	C	ARG	A	23	-14.331	10.624	-3.722	1.00	30.33	A	C
ATOM	174	O	ARG	A	23	-15.267	11.132	-3.109	1.00	30.89	A	O
ATOM	175	N	ILE	A	24	-14.278	9.325	-4.005	1.00	31.18	A	N
ATOM	176	CA	ILE	A	24	-15.288	8.376	-3.572	1.00	31.47	A	C
ATOM	177	CB	ILE	A	24	-15.095	6.973	-4.239	1.00	32.71	A	C
ATOM	178	CG2	ILE	A	24	-16.216	6.006	-3.789	1.00	31.57	A	C
ATOM	179	CG1	ILE	A	24	-15.082	7.093	-5.765	1.00	35.34	A	C
ATOM	180	CD1	ILE	A	24	-16.430	7.366	-6.399	1.00	38.28	A	C
ATOM	181	C	ILE	A	24	-14.960	8.258	-2.091	1.00	31.98	A	C
ATOM	182	O	ILE	A	24	-13.952	7.662	-1.725	1.00	31.48	A	O
ATOM	183	N	ALA	A	25	-15.807	8.804	-1.230	1.00	32.36	A	N
ATOM	184	CA	ALA	A	25	-15.496	8.776	0.187	1.00	32.63	A	C
ATOM	185	CB	ALA	A	25	-15.896	10.084	0.833	1.00	31.11	A	C
ATOM	186	C	ALA	A	25	-16.063	7.635	0.973	1.00	34.44	A	C
ATOM	187	O	ALA	A	25	-15.352	7.025	1.777	1.00	35.78	A	O
ATOM	188	N	ASP	A	26	-17.331	7.324	0.740	1.00	34.90	A	N
ATOM	189	CA	ASP	A	26	-17.972	6.268	1.499	1.00	34.67	A	C
ATOM	190	CB	ASP	A	26	-18.495	6.864	2.813	1.00	34.44	A	C
ATOM	191	CG	ASP	A	26	-18.411	5.889	3.961	1.00	38.82	A	C

Table 7

ATOM	192	OD1	ASP	A	26	-18.216	4.689	3.643	1.00	38.71	A	O
ATOM	193	OD2	ASP	A	26	-18.539	6.310	5.156	1.00	39.61	A	O
ATOM	194	C	ASP	A	26	-19.115	5.583	0.735	1.00	33.70	A	C
ATOM	195	O	ASP	A	26	-19.632	6.129	-0.226	1.00	32.43	A	O
ATOM	196	N	ARG	A	27	-19.484	4.384	1.179	1.00	34.13	A	N
ATOM	197	CA	ARG	A	27	-20.562	3.579	0.586	1.00	36.18	A	C
ATOM	198	CB	ARG	A	27	-20.012	2.389	-0.262	1.00	36.54	A	C
ATOM	199	CG	ARG	A	27	-19.337	2.726	-1.583	1.00	40.01	A	C
ATOM	200	CD	ARG	A	27	-19.091	1.473	-2.457	1.00	42.24	A	C
ATOM	201	NE	ARG	A	27	-20.276	0.974	-3.180	1.00	44.09	A	N
ATOM	202	CZ	ARG	A	27	-21.083	-0.009	-2.750	1.00	45.69	A	C
ATOM	203	NH1	ARG	A	27	-20.859	-0.625	-1.586	1.00	44.96	A	N
ATOM	204	NH2	ARG	A	27	-22.110	-0.403	-3.500	1.00	45.52	A	N
ATOM	205	C	ARG	A	27	-21.338	2.960	1.743	1.00	36.06	A	C
ATOM	206	O	ARG	A	27	-20.756	2.536	2.730	1.00	36.36	A	O
ATOM	207	N	LYS	A	28	-22.645	2.874	1.624	1.00	36.87	A	N
ATOM	208	CA	LYS	A	28	-23.421	2.235	2.664	1.00	39.19	A	C
ATOM	209	CB	LYS	A	28	-23.834	3.256	3.729	1.00	41.94	A	C
ATOM	210	CG	LYS	A	28	-22.659	3.723	4.592	1.00	43.36	A	C
ATOM	211	CD	LYS	A	28	-22.992	4.969	5.388	1.00	45.34	A	C
ATOM	212	CE	LYS	A	28	-22.065	5.082	6.582	1.00	46.95	A	C
ATOM	213	NZ	LYS	A	28	-22.228	3.853	7.428	1.00	45.40	A	N
ATOM	214	C	LYS	A	28	-24.619	1.630	1.994	1.00	39.56	A	C
ATOM	215	O	LYS	A	28	-25.128	2.198	1.030	1.00	41.82	A	O
ATOM	216	N	LYS	A	29	-25.057	0.463	2.460	1.00	40.99	A	N
ATOM	217	CA	LYS	A	29	-26.225	-0.173	1.856	1.00	41.45	A	C
ATOM	218	CB	LYS	A	29	-25.796	-1.376	1.000	1.00	43.66	A	C
ATOM	219	CG	LYS	A	29	-26.947	-2.001	0.172	1.00	47.58	A	C
ATOM	220	CD	LYS	A	29	-26.534	-3.284	-0.569	1.00	48.74	A	C
ATOM	221	CE	LYS	A	29	-25.496	-2.999	-1.645	1.00	49.20	A	C
ATOM	222	NZ	LYS	A	29	-26.034	-2.095	-2.699	1.00	47.25	A	N
ATOM	223	C	LYS	A	29	-27.248	-0.601	2.902	1.00	40.18	A	C
ATOM	224	O	LYS	A	29	-26.911	-1.230	3.888	1.00	39.41	A	O
ATOM	225	N	GLY	A	30	-28.504	-0.240	2.685	1.00	40.20	A	N
ATOM	226	CA	GLY	A	30	-29.536	-0.616	3.628	1.00	41.86	A	C
ATOM	227	C	GLY	A	30	-29.764	-2.117	3.620	1.00	42.52	A	C
ATOM	228	O	GLY	A	30	-29.356	-2.815	2.674	1.00	42.59	A	O
ATOM	229	N	VAL	A	31	-30.416	-2.632	4.657	1.00	41.26	A	N
ATOM	230	CA	VAL	A	31	-30.660	-4.059	4.695	1.00	40.67	A	C
ATOM	231	CB	VAL	A	31	-31.277	-4.486	6.062	1.00	41.14	A	C
ATOM	232	CG1	VAL	A	31	-30.463	-3.862	7.179	1.00	41.05	A	C
ATOM	233	CG2	VAL	A	31	-32.739	-4.075	6.177	1.00	39.89	A	C
ATOM	234	C	VAL	A	31	-31.530	-4.506	3.502	1.00	40.16	A	C
ATOM	235	O	VAL	A	31	-31.495	-5.666	3.125	1.00	39.76	A	O
ATOM	236	N	ASN	A	32	-32.260	-3.582	2.879	1.00	39.71	A	N
ATOM	237	CA	ASN	A	32	-33.111	-3.915	1.736	1.00	40.93	A	C
ATOM	238	CB	ASN	A	32	-34.470	-3.221	1.873	1.00	42.64	A	C
ATOM	239	CG	ASN	A	32	-35.457	-4.018	2.738	1.00	45.26	A	C
ATOM	240	OD1	ASN	A	32	-35.941	-5.093	2.344	1.00	46.06	A	O
ATOM	241	ND2	ASN	A	32	-35.751	-3.498	3.919	1.00	45.93	A	N
ATOM	242	C	ASN	A	32	-32.548	-3.652	0.317	1.00	41.83	A	C
ATOM	243	O	ASN	A	32	-33.264	-3.795	-0.674	1.00	41.17	A	O
ATOM	244	N	GLY	A	33	-31.281	-3.260	0.208	1.00	42.49	A	N
ATOM	245	CA	GLY	A	33	-30.710	-3.058	-1.112	1.00	42.70	A	C
ATOM	246	C	GLY	A	33	-30.286	-1.663	-1.510	1.00	42.50	A	C
ATOM	247	O	GLY	A	33	-29.381	-1.516	-2.327	1.00	42.47	A	O
ATOM	248	N	ASP	A	34	-30.919	-0.646	-0.933	1.00	41.26	A	N

Table 7

ATOM	249	CA	ASP	A	34	-30.606	0.741	-1.258	1.00	40.24	A	C
ATOM	250	CB	ASP	A	34	-31.628	1.666	-0.607	1.00	41.94	A	C
ATOM	251	CG	ASP	A	34	-32.943	1.699	-1.379	1.00	47.67	A	C
ATOM	252	OD1	ASP	A	34	-32.892	1.719	-2.645	1.00	48.00	A	O
ATOM	253	OD2	ASP	A	34	-34.028	1.723	-0.733	1.00	49.92	A	O
ATOM	254	C	ASP	A	34	-29.181	1.221	-0.952	1.00	38.09	A	C
ATOM	255	O	ASP	A	34	-28.664	1.016	0.145	1.00	37.32	A	O
ATOM	256	N	LEU	A	35	-28.565	1.868	-1.949	1.00	34.80	A	N
ATOM	257	CA	LEU	A	35	-27.194	2.362	-1.858	1.00	32.60	A	C
ATOM	258	CB	LEU	A	35	-26.442	2.042	-3.171	1.00	32.00	A	C
ATOM	259	CG	LEU	A	35	-24.931	2.314	-3.392	1.00	32.61	A	C
ATOM	260	CD1	LEU	A	35	-24.069	1.670	-2.339	1.00	32.12	A	C
ATOM	261	CD2	LEU	A	35	-24.538	1.765	-4.747	1.00	33.84	A	C
ATOM	262	C	LEU	A	35	-27.061	3.856	-1.539	1.00	30.19	A	C
ATOM	263	O	LEU	A	35	-27.868	4.678	-1.937	1.00	28.92	A	O
ATOM	264	N	ILE	A	36	-26.006	4.188	-0.820	1.00	29.14	A	N
ATOM	265	CA	ILE	A	36	-25.727	5.566	-0.468	1.00	28.72	A	C
ATOM	266	CB	ILE	A	36	-26.120	5.816	1.022	1.00	30.80	A	C
ATOM	267	CG2	ILE	A	36	-25.756	7.238	1.459	1.00	31.17	A	C
ATOM	268	CG1	ILE	A	36	-27.624	5.590	1.190	1.00	31.42	A	C
ATOM	269	CD1	ILE	A	36	-28.051	5.443	2.624	1.00	34.38	A	C
ATOM	270	C	ILE	A	36	-24.221	5.741	-0.711	1.00	26.73	A	C
ATOM	271	O	ILE	A	36	-23.396	4.994	-0.189	1.00	25.82	A	O
ATOM	272	N	VAL	A	37	-23.860	6.687	-1.559	1.00	26.16	A	N
ATOM	273	CA	VAL	A	37	-22.452	6.934	-1.817	1.00	24.17	A	C
ATOM	274	CB	VAL	A	37	-22.066	6.688	-3.301	1.00	26.23	A	C
ATOM	275	CG1	VAL	A	37	-20.530	6.900	-3.487	1.00	25.74	A	C
ATOM	276	CG2	VAL	A	37	-22.452	5.286	-3.722	1.00	24.91	A	C
ATOM	277	C	VAL	A	37	-22.180	8.379	-1.455	1.00	23.83	A	C
ATOM	278	O	VAL	A	37	-22.973	9.274	-1.754	1.00	24.13	A	O
ATOM	279	N	LYS	A	38	-21.066	8.599	-0.776	1.00	24.54	A	N
ATOM	280	CA	LYS	A	38	-20.678	9.919	-0.328	1.00	24.20	A	C
ATOM	281	CB	LYS	A	38	-20.376	9.892	1.164	1.00	26.26	A	C
ATOM	282	CG	LYS	A	38	-19.869	11.232	1.703	1.00	30.87	A	C
ATOM	283	CD	LYS	A	38	-19.825	11.258	3.244	1.00	33.19	A	C
ATOM	284	CE	LYS	A	38	-21.155	10.828	3.891	1.00	34.25	A	C
ATOM	285	NZ	LYS	A	38	-21.012	10.672	5.381	1.00	34.27	A	N
ATOM	286	C	LYS	A	38	-19.443	10.327	-1.075	1.00	24.93	A	C
ATOM	287	O	LYS	A	38	-18.547	9.517	-1.266	1.00	25.03	A	O
ATOM	288	N	TYR	A	39	-19.386	11.586	-1.500	1.00	25.00	A	N
ATOM	289	CA	TYR	A	39	-18.231	12.074	-2.225	1.00	24.34	A	C
ATOM	290	CB	TYR	A	39	-18.618	12.525	-3.629	1.00	23.43	A	C
ATOM	291	CG	TYR	A	39	-19.007	11.404	-4.561	1.00	24.72	A	C
ATOM	292	CD1	TYR	A	39	-18.045	10.637	-5.212	1.00	23.92	A	C
ATOM	293	CE1	TYR	A	39	-18.414	9.614	-6.078	1.00	24.51	A	C
ATOM	294	CD2	TYR	A	39	-20.346	11.115	-4.798	1.00	25.68	A	C
ATOM	295	CE2	TYR	A	39	-20.726	10.093	-5.653	1.00	25.20	A	C
ATOM	296	CZ	TYR	A	39	-19.761	9.353	-6.288	1.00	24.64	A	C
ATOM	297	OH	TYR	A	39	-20.156	8.364	-7.139	1.00	24.87	A	O
ATOM	298	C	TYR	A	39	-17.535	13.224	-1.544	1.00	24.50	A	C
ATOM	299	O	TYR	A	39	-18.163	14.175	-1.113	1.00	25.19	A	O
ATOM	300	N	ASP	A	40	-16.222	13.124	-1.458	1.00	25.16	A	N
ATOM	301	CA	ASP	A	40	-15.410	14.177	-0.887	1.00	26.57	A	C
ATOM	302	CB	ASP	A	40	-14.128	13.545	-0.297	1.00	28.20	A	C
ATOM	303	CG	ASP	A	40	-13.070	14.574	0.127	1.00	30.64	A	C
ATOM	304	OD1	ASP	A	40	-13.311	15.806	0.043	1.00	32.26	A	O
ATOM	305	OD2	ASP	A	40	-11.975	14.133	0.556	1.00	29.55	A	O

Table 7

ATOM	306	C	ASP	A	40	-15.090	15.111	-2.077	1.00	27.34	A	C
ATOM	307	O	ASP	A	40	-14.289	14.763	-2.955	1.00	27.56	A	O
ATOM	308	N	VAL	A	41	-15.762	16.249	-2.167	1.00	26.62	A	N
ATOM	309	CA	VAL	A	41	-15.444	17.161	-3.242	1.00	28.63	A	C
ATOM	310	CB	VAL	A	41	-16.694	17.633	-4.041	1.00	30.04	A	C
ATOM	311	CG1	VAL	A	41	-17.948	17.476	-3.237	1.00	32.93	A	C
ATOM	312	CG2	VAL	A	41	-16.515	19.073	-4.502	1.00	29.01	A	C
ATOM	313	C	VAL	A	41	-14.685	18.285	-2.553	1.00	30.08	A	C
ATOM	314	O	VAL	A	41	-15.267	19.118	-1.837	1.00	28.41	A	O
ATOM	315	N	ARG	A	42	-13.359	18.246	-2.775	1.00	29.30	A	N
ATOM	316	CA	ARG	A	42	-12.350	19.125	-2.164	1.00	28.22	A	C
ATOM	317	CB	ARG	A	42	-11.104	18.257	-1.834	1.00	28.24	A	C
ATOM	318	CG	ARG	A	42	-10.079	18.823	-0.880	1.00	26.13	A	C
ATOM	319	CD	ARG	A	42	-10.566	18.860	0.575	1.00	29.13	A	C
ATOM	320	NE	ARG	A	42	-10.816	17.526	1.127	1.00	30.82	A	N
ATOM	321	CZ	ARG	A	42	-10.856	17.238	2.426	1.00	29.02	A	C
ATOM	322	NH1	ARG	A	42	-10.662	18.172	3.344	1.00	27.94	A	N
ATOM	323	NH2	ARG	A	42	-11.082	16.002	2.806	1.00	30.34	A	N
ATOM	324	C	ARG	A	42	-11.955	20.324	-3.012	1.00	28.00	A	C
ATOM	325	O	ARG	A	42	-11.408	20.186	-4.083	1.00	27.70	A	O
ATOM	326	N	PHE	A	43	-12.255	21.507	-2.509	1.00	30.91	A	N
ATOM	327	CA	PHE	A	43	-11.936	22.767	-3.178	1.00	32.47	A	C
ATOM	328	CB	PHE	A	43	-12.987	23.830	-2.803	1.00	31.42	A	C
ATOM	329	CG	PHE	A	43	-14.242	23.743	-3.593	1.00	31.24	A	C
ATOM	330	CD1	PHE	A	43	-14.562	24.738	-4.508	1.00	30.02	A	C
ATOM	331	CD2	PHE	A	43	-15.078	22.626	-3.484	1.00	31.27	A	C
ATOM	332	CE1	PHE	A	43	-15.687	24.629	-5.312	1.00	30.99	A	C
ATOM	333	CE2	PHE	A	43	-16.217	22.505	-4.293	1.00	28.63	A	C
ATOM	334	CZ	PHE	A	43	-16.520	23.496	-5.202	1.00	28.85	A	C
ATOM	335	C	PHE	A	43	-10.550	23.333	-2.815	1.00	33.99	A	C
ATOM	336	O	PHE	A	43	-9.866	23.906	-3.655	1.00	33.98	A	O
ATOM	337	N	LYS	A	44	-10.155	23.184	-1.555	1.00	35.25	A	N
ATOM	338	CA	LYS	A	44	-8.904	23.742	-1.079	1.00	35.64	A	C
ATOM	339	CB	LYS	A	44	-9.173	24.646	0.119	1.00	36.89	A	C
ATOM	340	CG	LYS	A	44	-10.070	25.815	-0.172	1.00	38.02	A	C
ATOM	341	CD	LYS	A	44	-9.412	26.772	-1.130	1.00	39.02	A	C
ATOM	342	CE	LYS	A	44	-10.066	28.155	-1.049	1.00	41.17	A	C
ATOM	343	NZ	LYS	A	44	-9.540	29.123	-2.058	1.00	40.47	A	N
ATOM	344	C	LYS	A	44	-7.915	22.693	-0.654	1.00	35.63	A	C
ATOM	345	O	LYS	A	44	-8.290	21.575	-0.346	1.00	35.66	A	O
ATOM	346	N	GLN	A	45	-6.644	23.082	-0.620	1.00	36.12	A	N
ATOM	347	CA	GLN	A	45	-5.569	22.195	-0.208	1.00	35.52	A	C
ATOM	348	CB	GLN	A	45	-4.259	22.712	-0.789	1.00	34.62	A	C
ATOM	349	CG	GLN	A	45	-3.062	21.853	-0.510	1.00	33.15	A	C
ATOM	350	CD	GLN	A	45	-3.222	20.434	-1.011	1.00	33.85	A	C
ATOM	351	OE1	GLN	A	45	-3.435	20.179	-2.213	1.00	32.42	A	O
ATOM	352	NE2	GLN	A	45	-3.102	19.493	-0.097	1.00	33.73	A	N
ATOM	353	C	GLN	A	45	-5.518	22.134	1.334	1.00	36.92	A	C
ATOM	354	O	GLN	A	45	-5.347	23.157	2.020	1.00	36.18	A	O
ATOM	355	N	PRO	A	46	-5.692	20.924	1.898	1.00	38.08	A	N
ATOM	356	CD	PRO	A	46	-5.887	19.659	1.164	1.00	37.99	A	C
ATOM	357	CA	PRO	A	46	-5.678	20.680	3.341	1.00	38.72	A	C
ATOM	358	CB	PRO	A	46	-5.643	19.164	3.427	1.00	38.34	A	C
ATOM	359	CG	PRO	A	46	-6.433	18.760	2.237	1.00	38.22	A	C
ATOM	360	C	PRO	A	46	-4.527	21.338	4.106	1.00	39.96	A	C
ATOM	361	O	PRO	A	46	-3.353	21.183	3.770	1.00	39.35	A	O
ATOM	362	N	ASN	A	47	-4.900	22.068	5.149	1.00	40.65	A	N

Table 7

ATOM	363	CA	ASN	A	47	-3.963	22.774	5.994	1.00	41.54	A	C
ATOM	364	CB	ASN	A	47	-3.127	21.780	6.772	1.00	39.92	A	C
ATOM	365	CG	ASN	A	47	-3.947	21.015	7.759	1.00	38.34	A	C
ATOM	366	OD1	ASN	A	47	-4.336	21.538	8.803	1.00	35.91	A	O
ATOM	367	ND2	ASN	A	47	-4.245	19.771	7.427	1.00	38.60	A	N
ATOM	368	C	ASN	A	47	-3.074	23.747	5.260	1.00	43.41	A	C
ATOM	369	O	ASN	A	47	-2.032	24.126	5.768	1.00	44.99	A	O
ATOM	370	N	ARG	A	48	-3.491	24.162	4.073	1.00	45.94	A	N
ATOM	371	CA	ARG	A	48	-2.724	25.119	3.284	1.00	48.32	A	C
ATOM	372	CB	ARG	A	48	-2.240	24.472	1.981	1.00	49.17	A	C
ATOM	373	CG	ARG	A	48	-1.609	25.472	1.032	1.00	52.69	A	C
ATOM	374	CD	ARG	A	48	-1.615	24.992	-0.414	1.00	56.22	A	C
ATOM	375	NE	ARG	A	48	-2.687	25.581	-1.239	1.00	59.34	A	N
ATOM	376	CZ	ARG	A	48	-2.701	26.839	-1.702	1.00	60.76	A	C
ATOM	377	NH1	ARG	A	48	-1.698	27.675	-1.427	1.00	60.92	A	N
ATOM	378	NH2	ARG	A	48	-3.714	27.263	-2.461	1.00	60.12	A	N
ATOM	379	C	ARG	A	48	-3.588	26.345	2.956	1.00	48.79	A	C
ATOM	380	O	ARG	A	48	-3.194	27.489	3.191	1.00	49.23	A	O
ATOM	381	N	ASP	A	49	-4.769	26.086	2.407	1.00	48.45	A	N
ATOM	382	CA	ASP	A	49	-5.716	27.130	2.033	1.00	47.81	A	C
ATOM	383	CB	ASP	A	49	-5.830	27.190	0.509	1.00	49.03	A	C
ATOM	384	CG	ASP	A	49	-6.001	28.601	-0.015	1.00	52.52	A	C
ATOM	385	OD1	ASP	A	49	-6.425	29.482	0.773	1.00	54.07	A	O
ATOM	386	OD2	ASP	A	49	-5.713	28.834	-1.219	1.00	52.05	A	O
ATOM	387	C	ASP	A	49	-7.082	26.734	2.626	1.00	46.83	A	C
ATOM	388	O	ASP	A	49	-7.273	25.593	3.077	1.00	47.57	A	O
ATOM	389	N	HIS	A	50	-8.026	27.662	2.629	1.00	43.33	A	N
ATOM	390	CA	HIS	A	50	-9.344	27.355	3.137	1.00	41.62	A	C
ATOM	391	CB	HIS	A	50	-9.354	27.336	4.672	1.00	41.75	A	C
ATOM	392	CG	HIS	A	50	-9.330	28.692	5.323	1.00	42.21	A	C
ATOM	393	CD2	HIS	A	50	-8.399	29.285	6.110	1.00	42.37	A	C
ATOM	394	ND1	HIS	A	50	-10.419	29.537	5.328	1.00	42.93	A	N
ATOM	395	CE1	HIS	A	50	-10.169	30.582	6.098	1.00	42.04	A	C
ATOM	396	NE2	HIS	A	50	-8.949	30.453	6.587	1.00	43.34	A	N
ATOM	397	C	HIS	A	50	-10.365	28.344	2.612	1.00	40.51	A	C
ATOM	398	O	HIS	A	50	-10.038	29.493	2.350	1.00	39.70	A	O
ATOM	399	N	MSE	A	51	-11.601	27.880	2.444	1.00	39.76	A	N
ATOM	400	CA	MSE	A	51	-12.683	28.733	1.962	1.00	38.81	A	C
ATOM	401	CB	MSE	A	51	-13.867	27.905	1.471	1.00	38.87	A	C
ATOM	402	CG	MSE	A	51	-13.692	27.242	0.126	1.00	41.85	A	C
ATOM	403	SE	MSE	A	51	-15.178	26.027	-0.230	1.00	40.59	A	S
ATOM	404	CE	MSE	A	51	-16.578	27.178	0.267	1.00	43.61	A	C
ATOM	405	C	MSE	A	51	-13.195	29.692	3.023	1.00	36.70	A	C
ATOM	406	O	MSE	A	51	-13.315	29.375	4.210	1.00	35.51	A	O
ATOM	407	N	ASP	A	52	-13.519	30.872	2.545	1.00	36.24	A	N
ATOM	408	CA	ASP	A	52	-14.060	31.953	3.348	1.00	36.64	A	C
ATOM	409	CB	ASP	A	52	-13.970	33.198	2.479	1.00	40.09	A	C
ATOM	410	CG	ASP	A	52	-14.675	34.345	3.065	1.00	44.45	A	C
ATOM	411	OD1	ASP	A	52	-14.389	34.651	4.264	1.00	48.10	A	O
ATOM	412	OD2	ASP	A	52	-15.510	34.932	2.328	1.00	46.50	A	O
ATOM	413	C	ASP	A	52	-15.530	31.605	3.688	1.00	34.77	A	C
ATOM	414	O	ASP	A	52	-16.302	31.327	2.779	1.00	33.50	A	O
ATOM	415	N	MSE	A	53	-15.924	31.642	4.960	1.00	32.47	A	N
ATOM	416	CA	MSE	A	53	-17.289	31.262	5.331	1.00	32.75	A	C
ATOM	417	CB	MSE	A	53	-17.549	31.513	6.811	1.00	35.45	A	C
ATOM	418	CG	MSE	A	53	-16.927	30.433	7.738	1.00	38.36	A	C
ATOM	419	SE	MSE	A	53	-17.352	28.590	7.222	1.00	41.10	A	S

Table 7

ATOM	420	CE	MSE	A	53	-19.273	28.643	7.309	1.00	40.17	A	C
ATOM	421	C	MSE	A	53	-18.453	31.822	4.530	1.00	33.52	A	C
ATOM	422	O	MSE	A	53	-19.375	31.081	4.198	1.00	33.22	A	O
ATOM	423	N	PRO	A	54	-18.443	33.134	4.212	1.00	32.98	A	N
ATOM	424	CD	PRO	A	54	-17.629	34.257	4.713	1.00	32.43	A	C
ATOM	425	CA	PRO	A	54	-19.578	33.633	3.436	1.00	31.21	A	C
ATOM	426	CB	PRO	A	54	-19.393	35.159	3.460	1.00	31.55	A	C
ATOM	427	CG	PRO	A	54	-18.640	35.397	4.725	1.00	32.87	A	C
ATOM	428	C	PRO	A	54	-19.549	33.086	2.031	1.00	30.48	A	C
ATOM	429	O	PRO	A	54	-20.592	32.805	1.467	1.00	31.35	A	O
ATOM	430	N	SER	A	55	-18.371	32.945	1.439	1.00	29.72	A	N
ATOM	431	CA	SER	A	55	-18.350	32.427	0.076	1.00	29.50	A	C
ATOM	432	CB	SER	A	55	-16.939	32.502	-0.537	1.00	31.62	A	C
ATOM	433	OG	SER	A	55	-16.526	33.846	-0.767	1.00	31.92	A	O
ATOM	434	C	SER	A	55	-18.823	30.979	0.125	1.00	27.90	A	C
ATOM	435	O	SER	A	55	-19.500	30.497	-0.765	1.00	27.13	A	O
ATOM	436	N	LEU	A	56	-18.444	30.308	1.201	1.00	28.04	A	N
ATOM	437	CA	LEU	A	56	-18.768	28.918	1.446	1.00	28.74	A	C
ATOM	438	CB	LEU	A	56	-17.974	28.428	2.671	1.00	27.97	A	C
ATOM	439	CG	LEU	A	56	-18.187	26.989	3.145	1.00	30.93	A	C
ATOM	440	CD1	LEU	A	56	-16.925	26.409	3.836	1.00	29.68	A	C
ATOM	441	CD2	LEU	A	56	-19.401	26.994	4.114	1.00	31.12	A	C
ATOM	442	C	LEU	A	56	-20.272	28.738	1.655	1.00	28.15	A	C
ATOM	443	O	LEU	A	56	-20.895	27.924	1.008	1.00	28.63	A	O
ATOM	444	N	HIS	A	57	-20.829	29.526	2.557	1.00	26.46	A	N
ATOM	445	CA	HIS	A	57	-22.223	29.471	2.861	1.00	25.25	A	C
ATOM	446	CB	HIS	A	57	-22.555	30.509	3.927	1.00	24.26	A	C
ATOM	447	CG	HIS	A	57	-23.970	30.428	4.425	1.00	24.26	A	C
ATOM	448	CD2	HIS	A	57	-24.930	29.494	4.233	1.00	23.20	A	C
ATOM	449	ND1	HIS	A	57	-24.544	31.404	5.217	1.00	25.51	A	N
ATOM	450	CE1	HIS	A	57	-25.796	31.079	5.483	1.00	24.64	A	C
ATOM	451	NE2	HIS	A	57	-26.054	29.925	4.899	1.00	22.77	A	N
ATOM	452	C	HIS	A	57	-23.040	29.727	1.599	1.00	24.58	A	C
ATOM	453	O	HIS	A	57	-24.056	29.061	1.361	1.00	22.28	A	O
ATOM	454	N	SER	A	58	-22.579	30.684	0.794	1.00	23.87	A	N
ATOM	455	CA	SER	A	58	-23.249	31.055	-0.446	1.00	23.94	A	C
ATOM	456	CB	SER	A	58	-22.642	32.315	-1.016	1.00	23.57	A	C
ATOM	457	OG	SER	A	58	-23.428	33.411	-0.598	1.00	29.32	A	O
ATOM	458	C	SER	A	58	-23.184	29.942	-1.477	1.00	24.66	A	C
ATOM	459	O	SER	A	58	-24.180	29.676	-2.163	1.00	25.33	A	O
ATOM	460	N	LEU	A	59	-22.028	29.285	-1.572	1.00	22.62	A	N
ATOM	461	CA	LEU	A	59	-21.864	28.187	-2.509	1.00	23.16	A	C
ATOM	462	CB	LEU	A	59	-20.393	27.803	-2.624	1.00	20.50	A	C
ATOM	463	CG	LEU	A	59	-20.065	26.836	-3.771	1.00	22.41	A	C
ATOM	464	CD1	LEU	A	59	-20.402	27.504	-5.114	1.00	20.33	A	C
ATOM	465	CD2	LEU	A	59	-18.594	26.426	-3.738	1.00	17.42	A	C
ATOM	466	C	LEU	A	59	-22.700	26.970	-2.035	1.00	24.22	A	C
ATOM	467	O	LEU	A	59	-23.155	26.166	-2.864	1.00	25.19	A	O
ATOM	468	N	GLU	A	60	-22.923	26.857	-0.718	1.00	23.10	A	N
ATOM	469	CA	GLU	A	60	-23.702	25.753	-0.157	1.00	22.79	A	C
ATOM	470	CB	GLU	A	60	-23.712	25.819	1.376	1.00	22.82	A	C
ATOM	471	CG	GLU	A	60	-24.467	24.678	2.040	1.00	23.54	A	C
ATOM	472	CD	GLU	A	60	-24.868	24.986	3.484	1.00	25.41	A	C
ATOM	473	OE1	GLU	A	60	-25.085	24.051	4.274	1.00	26.93	A	O
ATOM	474	OE2	GLU	A	60	-24.986	26.162	3.848	1.00	27.34	A	O
ATOM	475	C	GLU	A	60	-25.133	25.851	-0.691	1.00	22.01	A	C
ATOM	476	O	GLU	A	60	-25.694	24.868	-1.163	1.00	22.14	A	O

Table 7

ATOM	477	N	HIS	A	61	-25.701	27.048	-0.611	1.00	22.10	A N
ATOM	478	CA	HIS	A	61	-27.046	27.333	-1.108	1.00	21.65	A C
ATOM	479	CB	HIS	A	61	-27.427	28.798	-0.845	1.00	20.67	A C
ATOM	480	CG	HIS	A	61	-27.989	29.059	0.509	1.00	19.78	A C
ATOM	481	CD2	HIS	A	61	-27.613	28.625	1.734	1.00	18.76	A C
ATOM	482	ND1	HIS	A	61	-29.047	29.923	0.713	1.00	19.53	A N
ATOM	483	CE1	HIS	A	61	-29.298	30.009	2.005	1.00	16.50	A C
ATOM	484	NE2	HIS	A	61	-28.444	29.229	2.644	1.00	19.60	A N
ATOM	485	C	HIS	A	61	-27.150	27.141	-2.634	1.00	21.14	A C
ATOM	486	O	HIS	A	61	-28.026	26.453	-3.132	1.00	20.35	A O
ATOM	487	N	LEU	A	62	-26.264	27.806	-3.363	1.00	22.77	A N
ATOM	488	CA	LEU	A	62	-26.287	27.756	-4.827	1.00	22.59	A C
ATOM	489	CB	LEU	A	62	-25.129	28.583	-5.402	1.00	22.71	A C
ATOM	490	CG	LEU	A	62	-25.254	30.113	-5.397	1.00	22.19	A C
ATOM	491	CD1	LEU	A	62	-23.914	30.711	-5.557	1.00	21.97	A C
ATOM	492	CD2	LEU	A	62	-26.163	30.597	-6.535	1.00	21.36	A C
ATOM	493	C	LEU	A	62	-26.245	26.349	-5.381	1.00	21.70	A C
ATOM	494	O	LEU	A	62	-27.100	25.956	-6.140	1.00	21.77	A O
ATOM	495	N	VAL	A	63	-25.244	25.576	-4.986	1.00	25.00	A N
ATOM	496	CA	VAL	A	63	-25.102	24.219	-5.476	1.00	22.60	A C
ATOM	497	CB	VAL	A	63	-23.735	23.676	-5.086	1.00	23.61	A C
ATOM	498	CG1	VAL	A	63	-23.664	22.190	-5.334	1.00	24.34	A C
ATOM	499	CG2	VAL	A	63	-22.669	24.387	-5.890	1.00	22.62	A C
ATOM	500	C	VAL	A	63	-26.199	23.269	-4.985	1.00	24.20	A C
ATOM	501	O	VAL	A	63	-26.682	22.452	-5.756	1.00	25.88	A O
ATOM	502	N	ALA	A	64	-26.594	23.375	-3.714	1.00	23.35	A N
ATOM	503	CA	ALA	A	64	-27.620	22.496	-3.150	1.00	21.49	A C
ATOM	504	CB	ALA	A	64	-27.909	22.872	-1.694	1.00	20.85	A C
ATOM	505	C	ALA	A	64	-28.897	22.568	-3.952	1.00	20.71	A C
ATOM	506	O	ALA	A	64	-29.598	21.558	-4.106	1.00	18.83	A O
ATOM	507	N	GLU	A	65	-29.222	23.777	-4.412	1.00	21.10	A N
ATOM	508	CA	GLU	A	65	-30.409	24.011	-5.224	1.00	21.55	A C
ATOM	509	CB	GLU	A	65	-30.880	25.469	-5.155	1.00	24.02	A C
ATOM	510	CG	GLU	A	65	-31.949	25.805	-6.227	1.00	25.43	A C
ATOM	511	CD	GLU	A	65	-32.665	27.126	-5.964	1.00	30.78	A C
ATOM	512	OE1	GLU	A	65	-33.453	27.196	-4.999	1.00	32.59	A O
ATOM	513	OE2	GLU	A	65	-32.442	28.115	-6.715	1.00	33.82	A O
ATOM	514	C	GLU	A	65	-30.143	23.692	-6.675	1.00	22.02	A C
ATOM	515	O	GLU	A	65	-30.842	22.885	-7.265	1.00	22.04	A O
ATOM	516	N	ILE	A	66	-29.117	24.295	-7.269	1.00	24.12	A N
ATOM	517	CA	ILE	A	66	-28.927	24.011	-8.682	1.00	26.42	A C
ATOM	518	CB	ILE	A	66	-27.946	25.025	-9.420	1.00	27.39	A C
ATOM	519	CG2	ILE	A	66	-27.924	26.405	-8.766	1.00	24.70	A C
ATOM	520	CG1	ILE	A	66	-26.591	24.389	-9.568	1.00	29.14	A C
ATOM	521	CD1	ILE	A	66	-26.465	23.760	-10.916	1.00	32.13	A C
ATOM	522	C	ILE	A	66	-28.540	22.567	-8.995	1.00	25.94	A C
ATOM	523	O	ILE	A	66	-28.923	22.065	-10.055	1.00	27.53	A O
ATOM	524	N	ILE	A	67	-27.833	21.866	-8.109	1.00	23.30	A N
ATOM	525	CA	ILE	A	67	-27.501	20.475	-8.449	1.00	23.69	A C
ATOM	526	CB	ILE	A	67	-26.513	19.856	-7.435	1.00	22.17	A C
ATOM	527	CG2	ILE	A	67	-27.161	19.710	-6.093	1.00	21.28	A C
ATOM	528	CG1	ILE	A	67	-26.070	18.483	-7.915	1.00	20.95	A C
ATOM	529	CD1	ILE	A	67	-24.921	17.901	-7.112	1.00	25.63	A C
ATOM	530	C	ILE	A	67	-28.746	19.555	-8.551	1.00	26.28	A C
ATOM	531	O	ILE	A	67	-28.803	18.631	-9.402	1.00	27.21	A O
ATOM	532	N	ARG	A	68	-29.728	19.772	-7.672	1.00	25.96	A N
ATOM	533	CA	ARG	A	68	-30.944	18.966	-7.718	1.00	26.18	A C

ATOM	534	CB	ARG	A	68	-31.759	19.118	-6.430	1.00	23.50	A	C
ATOM	535	CG	ARG	A	68	-31.086	18.558	-5.202	1.00	18.39	A	C
ATOM	536	CD	ARG	A	68	-31.889	18.874	-3.971	1.00	17.87	A	C
ATOM	537	NE	ARG	A	68	-31.457	18.106	-2.807	1.00	20.62	A	N
ATOM	538	CZ	ARG	A	68	-30.507	18.478	-1.944	1.00	19.78	A	C
ATOM	539	NH1	ARG	A	68	-29.866	19.631	-2.099	1.00	18.76	A	N
ATOM	540	NH2	ARG	A	68	-30.206	17.688	-0.916	1.00	19.76	A	N
ATOM	541	C	ARG	A	68	-31.795	19.362	-8.931	1.00	27.82	A	C
ATOM	542	O	ARG	A	68	-32.864	18.808	-9.142	1.00	27.19	A	O
ATOM	543	N	ASN	A	69	-31.344	20.353	-9.703	1.00	29.80	A	N
ATOM	544	CA	ASN	A	69	-32.066	20.720	-10.924	1.00	30.76	A	C
ATOM	545	CB	ASN	A	69	-31.789	22.148	-11.396	1.00	29.47	A	C
ATOM	546	CG	ASN	A	69	-32.569	23.169	-10.625	1.00	30.56	A	C
ATOM	547	OD1	ASN	A	69	-33.632	22.870	-10.104	1.00	31.35	A	O
ATOM	548	ND2	ASN	A	69	-32.056	24.383	-10.552	1.00	31.07	A	N
ATOM	549	C	ASN	A	69	-31.537	19.786	-11.984	1.00	32.07	A	C
ATOM	550	O	ASN	A	69	-32.172	19.608	-13.001	1.00	34.48	A	O
ATOM	551	N	HIS	A	70	-30.368	19.198	-11.743	1.00	32.00	A	N
ATOM	552	CA	HIS	A	70	-29.762	18.283	-12.687	1.00	33.28	A	C
ATOM	553	CB	HIS	A	70	-28.330	18.734	-13.028	1.00	35.44	A	C
ATOM	554	CG	HIS	A	70	-28.222	20.150	-13.517	1.00	38.15	A	C
ATOM	555	CD2	HIS	A	70	-27.815	21.279	-12.886	1.00	39.02	A	C
ATOM	556	ND1	HIS	A	70	-28.578	20.534	-14.795	1.00	39.02	A	N
ATOM	557	CE1	HIS	A	70	-28.403	21.839	-14.926	1.00	40.68	A	C
ATOM	558	NE2	HIS	A	70	-27.940	22.316	-13.782	1.00	39.81	A	N
ATOM	559	C	HIS	A	70	-29.673	16.834	-12.202	1.00	34.38	A	C
ATOM	560	O	HIS	A	70	-29.013	16.047	-12.870	1.00	37.17	A	O
ATOM	561	N	ALA	A	71	-30.304	16.440	-11.088	1.00	35.00	A	N
ATOM	562	CA	ALA	A	71	-30.133	15.052	-10.636	1.00	34.49	A	C
ATOM	563	CB	ALA	A	71	-28.870	14.976	-9.786	1.00	34.60	A	C
ATOM	564	C	ALA	A	71	-31.214	14.154	-9.977	1.00	35.55	A	C
ATOM	565	O	ALA	A	71	-31.238	12.961	-10.229	1.00	38.94	A	O
ATOM	566	N	ASN	A	72	-32.083	14.639	-9.120	1.00	34.46	A	N
ATOM	567	CA	ASN	A	72	-33.070	13.718	-8.516	1.00	33.02	A	C
ATOM	568	CB	ASN	A	72	-34.026	13.114	-9.587	1.00	33.03	A	C
ATOM	569	CG	ASN	A	72	-33.549	11.765	-10.185	1.00	36.72	A	C
ATOM	570	OD1	ASN	A	72	-32.854	10.945	-9.550	1.00	34.98	A	O
ATOM	571	ND2	ASN	A	72	-33.956	11.530	-11.439	1.00	36.58	A	N
ATOM	572	C	ASN	A	72	-32.563	12.580	-7.607	1.00	30.87	A	C
ATOM	573	O	ASN	A	72	-33.379	11.898	-6.975	1.00	28.70	A	O
ATOM	574	N	TYR	A	77	-31.243	12.374	-7.537	1.00	29.02	A	N
ATOM	575	CA	TYR	A	77	-30.660	11.320	-6.686	1.00	25.77	A	C
ATOM	576	CB	TYR	A	77	-29.926	10.291	-7.562	1.00	26.74	A	C
ATOM	577	CG	TYR	A	77	-28.929	10.909	-8.524	1.00	29.24	A	C
ATOM	578	CD1	TYR	A	77	-27.728	11.468	-8.067	1.00	28.73	A	C
ATOM	579	CE1	TYR	A	77	-26.827	12.047	-8.943	1.00	30.27	A	C
ATOM	580	CD2	TYR	A	77	-29.194	10.950	-9.894	1.00	30.87	A	C
ATOM	581	CE2	TYR	A	77	-28.294	11.524	-10.783	1.00	32.11	A	C
ATOM	582	CZ	TYR	A	77	-27.108	12.064	-10.299	1.00	31.77	A	C
ATOM	583	OH	TYR	A	77	-26.176	12.534	-11.192	1.00	31.54	A	O
ATOM	584	C	TYR	A	77	-29.724	11.852	-5.581	1.00	22.20	A	C
ATOM	585	O	TYR	A	77	-29.002	11.098	-4.968	1.00	20.48	A	O
ATOM	586	N	VAL	A	78	-29.770	13.154	-5.338	1.00	21.94	A	N
ATOM	587	CA	VAL	A	78	-28.960	13.814	-4.318	1.00	21.18	A	C
ATOM	588	CB	VAL	A	78	-28.690	15.301	-4.693	1.00	20.86	A	C
ATOM	589	CG1	VAL	A	78	-27.794	15.949	-3.656	1.00	19.89	A	C
ATOM	590	CG2	VAL	A	78	-28.049	15.384	-6.086	1.00	19.44	A	C

Table 7

ATOM	591	C	VAL	A	78	-29.621	13.787	-2.936	1.00	23.41	A	C
ATOM	592	O	VAL	A	78	-30.706	14.320	-2.716	1.00	25.37	A	O
ATOM	593	N	VAL	A	79	-28.961	13.155	-1.983	1.00	24.08	A	N
ATOM	594	CA	VAL	A	79	-29.507	13.096	-0.655	1.00	22.68	A	C
ATOM	595	CB	VAL	A	79	-28.925	11.878	0.124	1.00	21.94	A	C
ATOM	596	CG1	VAL	A	79	-29.158	12.025	1.628	1.00	21.29	A	C
ATOM	597	CG2	VAL	A	79	-29.557	10.594	-0.393	1.00	18.18	A	C
ATOM	598	C	VAL	A	79	-29.108	14.397	0.013	1.00	24.93	A	C
ATOM	599	O	VAL	A	79	-29.913	15.037	0.674	1.00	24.45	A	O
ATOM	600	N	ASP	A	80	-27.885	14.850	-0.249	1.00	27.19	A	N
ATOM	601	CA	ASP	A	80	-27.410	16.013	0.469	1.00	27.87	A	C
ATOM	602	CB	ASP	A	80	-27.150	15.494	1.899	1.00	28.77	A	C
ATOM	603	CG	ASP	A	80	-26.871	16.581	2.879	1.00	29.99	A	C
ATOM	604	OD1	ASP	A	80	-27.821	17.302	3.241	1.00	33.82	A	O
ATOM	605	OD2	ASP	A	80	-25.700	16.715	3.286	1.00	33.13	A	O
ATOM	606	C	ASP	A	80	-26.127	16.687	-0.097	1.00	27.99	A	C
ATOM	607	O	ASP	A	80	-25.306	15.991	-0.695	1.00	27.68	A	O
ATOM	608	N	TRP	A	81	-25.983	18.014	0.103	1.00	25.64	A	N
ATOM	609	CA	TRP	A	81	-24.780	18.801	-0.258	1.00	26.56	A	C
ATOM	610	CB	TRP	A	81	-25.051	19.821	-1.353	1.00	26.71	A	C
ATOM	611	CG	TRP	A	81	-23.872	20.770	-1.616	1.00	27.24	A	C
ATOM	612	CD2	TRP	A	81	-22.718	20.503	-2.432	1.00	27.64	A	C
ATOM	613	CE2	TRP	A	81	-21.946	21.693	-2.481	1.00	26.49	A	C
ATOM	614	CE3	TRP	A	81	-22.270	19.377	-3.141	1.00	28.34	A	C
ATOM	615	CD1	TRP	A	81	-23.743	22.076	-1.199	1.00	26.04	A	C
ATOM	616	NE1	TRP	A	81	-22.587	22.639	-1.721	1.00	23.53	A	N
ATOM	617	CZ2	TRP	A	81	-20.753	21.780	-3.210	1.00	28.42	A	C
ATOM	618	CZ3	TRP	A	81	-21.073	19.469	-3.875	1.00	29.76	A	C
ATOM	619	CH2	TRP	A	81	-20.335	20.665	-3.902	1.00	28.36	A	C
ATOM	620	C	TRP	A	81	-24.339	19.586	1.009	1.00	27.21	A	C
ATOM	621	O	TRP	A	81	-24.919	20.618	1.303	1.00	26.63	A	O
ATOM	622	N	SER	A	82	-23.322	19.109	1.733	1.00	26.57	A	N
ATOM	623	CA	SER	A	82	-22.887	19.764	2.974	1.00	27.23	A	C
ATOM	624	CB	SER	A	82	-23.042	18.804	4.167	1.00	29.31	A	C
ATOM	625	OG	SER	A	82	-24.383	18.505	4.465	1.00	30.73	A	O
ATOM	626	C	SER	A	82	-21.452	20.253	3.026	1.00	27.31	A	C
ATOM	627	O	SER	A	82	-20.551	19.581	2.515	1.00	27.47	A	O
ATOM	628	N	PRO	A	83	-21.210	21.410	3.677	1.00	27.38	A	N
ATOM	629	CD	PRO	A	83	-22.183	22.173	4.475	1.00	27.29	A	C
ATOM	630	CA	PRO	A	83	-19.844	21.956	3.804	1.00	27.26	A	C
ATOM	631	CB	PRO	A	83	-20.067	23.399	4.242	1.00	27.95	A	C
ATOM	632	CG	PRO	A	83	-21.429	23.422	4.874	1.00	27.53	A	C
ATOM	633	C	PRO	A	83	-19.128	21.110	4.864	1.00	27.52	A	C
ATOM	634	O	PRO	A	83	-19.777	20.513	5.713	1.00	26.14	A	O
ATOM	635	N	MSE	A	84	-17.805	21.036	4.808	1.00	30.71	A	N
ATOM	636	CA	MSE	A	84	-17.048	20.204	5.741	1.00	32.91	A	C
ATOM	637	CB	MSE	A	84	-15.768	19.756	5.091	1.00	35.13	A	C
ATOM	638	CG	MSE	A	84	-16.015	18.715	4.055	1.00	41.15	A	C
ATOM	639	SE	MSE	A	84	-14.382	18.194	3.248	1.00	48.11	A	S
ATOM	640	CE	MSE	A	84	-13.715	17.137	4.737	1.00	47.77	A	C
ATOM	641	C	MSE	A	84	-16.729	20.675	7.159	1.00	35.27	A	C
ATOM	642	O	MSE	A	84	-16.563	19.833	8.075	1.00	36.68	A	O
ATOM	643	N	GLY	A	85	-16.617	21.974	7.396	1.00	33.13	A	N
ATOM	644	CA	GLY	A	85	-16.339	22.326	8.776	1.00	33.18	A	C
ATOM	645	C	GLY	A	85	-14.873	22.614	8.985	1.00	32.77	A	C
ATOM	646	O	GLY	A	85	-14.525	23.257	9.952	1.00	32.91	A	O
ATOM	647	N	CYS	A	86	-14.032	22.113	8.085	1.00	33.28	A	N

Table 7

ATOM	648	CA	CYS	A	86	-12.599	22.363	8.105	1.00	33.39	A	C
ATOM	649	CB	CYS	A	86	-11.776	21.078	7.821	1.00	34.24	A	C
ATOM	650	SG	CYS	A	86	-12.120	20.106	6.296	1.00	35.03	A	S
ATOM	651	C	CYS	A	86	-12.440	23.394	6.991	1.00	33.58	A	C
ATOM	652	O	CYS	A	86	-11.353	23.925	6.736	1.00	33.13	A	O
ATOM	653	N	GLN	A	87	-13.556	23.658	6.321	1.00	31.45	A	N
ATOM	654	CA	GLN	A	87	-13.607	24.667	5.264	1.00	30.84	A	C
ATOM	655	CB	GLN	A	87	-13.219	26.025	5.878	1.00	29.29	A	C
ATOM	656	CG	GLN	A	87	-14.353	26.712	6.611	1.00	26.32	A	C
ATOM	657	CD	GLN	A	87	-13.859	27.849	7.476	1.00	25.11	A	C
ATOM	658	OE1	GLN	A	87	-13.541	27.634	8.627	1.00	21.58	A	O
ATOM	659	NE2	GLN	A	87	-13.781	29.063	6.912	1.00	21.86	A	N
ATOM	660	C	GLN	A	87	-12.818	24.462	3.964	1.00	30.29	A	C
ATOM	661	O	GLN	A	87	-12.504	25.439	3.290	1.00	32.18	A	O
ATOM	662	N	THR	A	88	-12.536	23.227	3.574	1.00	29.61	A	N
ATOM	663	CA	THR	A	88	-11.773	23.004	2.354	1.00	28.60	A	C
ATOM	664	CB	THR	A	88	-10.504	22.209	2.635	1.00	27.88	A	C
ATOM	665	OG1	THR	A	88	-10.864	20.915	3.142	1.00	28.23	A	O
ATOM	666	CG2	THR	A	88	-9.632	22.930	3.670	1.00	24.72	A	C
ATOM	667	C	THR	A	88	-12.560	22.258	1.293	1.00	31.16	A	C
ATOM	668	O	THR	A	88	-12.188	22.281	0.106	1.00	32.07	A	O
ATOM	669	N	GLY	A	89	-13.642	21.595	1.709	1.00	31.56	A	N
ATOM	670	CA	GLY	A	89	-14.474	20.853	0.770	1.00	30.15	A	C
ATOM	671	C	GLY	A	89	-15.917	20.643	1.206	1.00	28.67	A	C
ATOM	672	O	GLY	A	89	-16.352	21.127	2.246	1.00	30.79	A	O
ATOM	673	N	PHE	A	90	-16.672	19.920	0.401	1.00	26.35	A	N
ATOM	674	CA	PHE	A	90	-18.054	19.635	0.722	1.00	24.60	A	C
ATOM	675	CB	PHE	A	90	-19.033	20.305	-0.225	1.00	22.80	A	C
ATOM	676	CG	PHE	A	90	-19.020	21.788	-0.194	1.00	22.49	A	C
ATOM	677	CD1	PHE	A	90	-19.981	22.485	0.527	1.00	21.99	A	C
ATOM	678	CD2	PHE	A	90	-18.085	22.503	-0.944	1.00	23.27	A	C
ATOM	679	CE1	PHE	A	90	-20.021	23.866	0.504	1.00	21.81	A	C
ATOM	680	CE2	PHE	A	90	-18.113	23.899	-0.976	1.00	24.02	A	C
ATOM	681	CZ	PHE	A	90	-19.076	24.582	-0.258	1.00	22.70	A	C
ATOM	682	C	PHE	A	90	-18.264	18.153	0.518	1.00	26.59	A	C
ATOM	683	O	PHE	A	90	-17.510	17.495	-0.209	1.00	25.89	A	O
ATOM	684	N	TYR	A	91	-19.320	17.646	1.148	1.00	25.00	A	N
ATOM	685	CA	TYR	A	91	-19.686	16.277	1.008	1.00	24.83	A	C
ATOM	686	CB	TYR	A	91	-19.909	15.639	2.373	1.00	27.27	A	C
ATOM	687	CG	TYR	A	91	-18.657	15.074	2.960	1.00	26.40	A	C
ATOM	688	CD1	TYR	A	91	-17.969	14.063	2.294	1.00	26.12	A	C
ATOM	689	CE1	TYR	A	91	-16.783	13.561	2.781	1.00	28.22	A	C
ATOM	690	CD2	TYR	A	91	-18.130	15.577	4.147	1.00	27.10	A	C
ATOM	691	CE2	TYR	A	91	-16.922	15.087	4.657	1.00	30.61	A	C
ATOM	692	CZ	TYR	A	91	-16.252	14.076	3.964	1.00	30.52	A	C
ATOM	693	OH	TYR	A	91	-15.043	13.589	4.426	1.00	34.24	A	O
ATOM	694	C	TYR	A	91	-20.967	16.227	0.191	1.00	25.19	A	C
ATOM	695	O	TYR	A	91	-21.953	16.935	0.493	1.00	23.41	A	O
ATOM	696	N	LEU	A	92	-20.914	15.404	-0.858	1.00	24.35	A	N
ATOM	697	CA	LEU	A	92	-22.030	15.155	-1.747	1.00	22.62	A	C
ATOM	698	CB	LEU	A	92	-21.596	15.223	-3.203	1.00	24.21	A	C
ATOM	699	CG	LEU	A	92	-22.653	14.754	-4.206	1.00	22.67	A	C
ATOM	700	CD1	LEU	A	92	-23.950	15.525	-4.008	1.00	21.54	A	C
ATOM	701	CD2	LEU	A	92	-22.133	14.983	-5.590	1.00	23.99	A	C
ATOM	702	C	LEU	A	92	-22.467	13.737	-1.472	1.00	23.01	A	C
ATOM	703	O	LEU	A	92	-21.680	12.807	-1.651	1.00	25.99	A	O
ATOM	704	N	THR	A	93	-23.701	13.548	-1.041	1.00	20.83	A	N

Table 7

ATOM	705	CA	THR	A	93	-24.189	12.202	-0.779	1.00	19.85	A	C
ATOM	706	CB	THR	A	93	-24.763	12.083	0.664	1.00	20.35	A	C
ATOM	707	OG1	THR	A	93	-23.800	12.538	1.633	1.00	19.51	A	O
ATOM	708	CG2	THR	A	93	-25.098	10.645	0.964	1.00	22.45	A	C
ATOM	709	C	THR	A	93	-25.312	11.869	-1.780	1.00	19.21	A	C
ATOM	710	O	THR	A	93	-26.218	12.666	-2.000	1.00	17.76	A	O
ATOM	711	N	VAL	A	94	-25.274	10.692	-2.380	1.00	18.84	A	N
ATOM	712	CA	VAL	A	94	-26.340	10.337	-3.306	1.00	19.61	A	C
ATOM	713	CB	VAL	A	94	-25.826	10.310	-4.743	1.00	18.72	A	C
ATOM	714	CG1	VAL	A	94	-25.391	11.726	-5.151	1.00	16.84	A	C
ATOM	715	CG2	VAL	A	94	-24.676	9.308	-4.864	1.00	16.56	A	C
ATOM	716	C	VAL	A	94	-27.035	9.002	-2.995	1.00	20.63	A	C
ATOM	717	O	VAL	A	94	-26.503	8.157	-2.304	1.00	20.73	A	O
ATOM	718	N	LEU	A	95	-28.227	8.823	-3.555	1.00	22.67	A	N
ATOM	719	CA	LEU	A	95	-29.050	7.641	-3.320	1.00	22.64	A	C
ATOM	720	CB	LEU	A	95	-30.442	8.097	-2.819	1.00	20.61	A	C
ATOM	721	CG	LEU	A	95	-31.515	7.047	-2.504	1.00	20.98	A	C
ATOM	722	CD1	LEU	A	95	-30.946	6.047	-1.515	1.00	18.70	A	C
ATOM	723	CD2	LEU	A	95	-32.794	7.710	-1.983	1.00	18.59	A	C
ATOM	724	C	LEU	A	95	-29.197	6.821	-4.595	1.00	23.76	A	C
ATOM	725	O	LEU	A	95	-29.527	7.359	-5.653	1.00	24.04	A	O
ATOM	726	N	ASN	A	96	-28.958	5.522	-4.495	1.00	23.38	A	N
ATOM	727	CA	ASN	A	96	-29.097	4.659	-5.652	1.00	26.50	A	C
ATOM	728	CB	ASN	A	96	-30.575	4.318	-5.890	1.00	25.35	A	C
ATOM	729	CG	ASN	A	96	-31.154	3.496	-4.777	1.00	25.80	A	C
ATOM	730	OD1	ASN	A	96	-30.538	2.529	-4.317	1.00	25.22	A	O
ATOM	731	ND2	ASN	A	96	-32.338	3.871	-4.327	1.00	28.44	A	N
ATOM	732	C	ASN	A	96	-28.492	5.180	-6.952	1.00	27.02	A	C
ATOM	733	O	ASN	A	96	-29.135	5.170	-8.000	1.00	28.49	A	O
ATOM	734	N	HIS	A	97	-27.257	5.644	-6.874	1.00	28.71	A	N
ATOM	735	CA	HIS	A	97	-26.548	6.128	-8.043	1.00	29.31	A	C
ATOM	736	CB	HIS	A	97	-26.720	7.635	-8.199	1.00	29.12	A	C
ATOM	737	CG	HIS	A	97	-26.137	8.199	-9.468	1.00	30.47	A	C
ATOM	738	CD2	HIS	A	97	-26.683	8.382	-10.699	1.00	28.15	A	C
ATOM	739	ND1	HIS	A	97	-24.865	8.735	-9.533	1.00	27.43	A	N
ATOM	740	CE1	HIS	A	97	-24.659	9.235	-10.738	1.00	27.21	A	C
ATOM	741	NE2	HIS	A	97	-25.745	9.035	-11.465	1.00	27.61	A	N
ATOM	742	C	HIS	A	97	-25.101	5.783	-7.775	1.00	30.18	A	C
ATOM	743	O	HIS	A	97	-24.531	6.229	-6.770	1.00	31.63	A	O
ATOM	744	N	ASP	A	98	-24.531	4.942	-8.636	1.00	29.94	A	N
ATOM	745	CA	ASP	A	98	-23.134	4.539	-8.506	1.00	29.50	A	C
ATOM	746	CB	ASP	A	98	-23.029	3.065	-8.131	1.00	28.28	A	C
ATOM	747	CG	ASP	A	98	-21.605	2.666	-7.791	1.00	30.48	A	C
ATOM	748	OD1	ASP	A	98	-20.690	3.462	-8.080	1.00	30.48	A	O
ATOM	749	OD2	ASP	A	98	-21.384	1.567	-7.235	1.00	34.29	A	O
ATOM	750	C	ASP	A	98	-22.424	4.782	-9.845	1.00	29.50	A	C
ATOM	751	O	ASP	A	98	-21.940	3.849	-10.482	1.00	31.12	A	O
ATOM	752	N	ASN	A	99	-22.346	6.038	-10.262	1.00	28.77	A	N
ATOM	753	CA	ASN	A	99	-21.739	6.356	-11.540	1.00	28.55	A	C
ATOM	754	CB	ASN	A	99	-22.835	6.681	-12.532	1.00	27.74	A	C
ATOM	755	CG	ASN	A	99	-22.348	6.668	-13.979	1.00	30.26	A	C
ATOM	756	OD1	ASN	A	99	-21.245	7.138	-14.305	1.00	28.59	A	O
ATOM	757	ND2	ASN	A	99	-23.190	6.158	-14.856	1.00	28.73	A	N
ATOM	758	C	ASN	A	99	-20.808	7.539	-11.392	1.00	28.39	A	C
ATOM	759	O	ASN	A	99	-21.219	8.701	-11.513	1.00	28.39	A	O
ATOM	760	N	TYR	A	100	-19.547	7.237	-11.135	1.00	28.03	A	N
ATOM	761	CA	TYR	A	100	-18.544	8.264	-10.934	1.00	27.98	A	C

Table 7

ATOM	762	CB	TYR	A	100	-17.192	7.608	-10.598	1.00	26.75	A C
ATOM	763	CG	TYR	A	100	-16.121	8.633	-10.261	1.00	27.70	A C
ATOM	764	CD1	TYR	A	100	-16.307	9.540	-9.231	1.00	27.28	A C
ATOM	765	CE1	TYR	A	100	-15.339	10.521	-8.937	1.00	28.44	A C
ATOM	766	CD2	TYR	A	100	-14.937	8.719	-11.003	1.00	26.75	A C
ATOM	767	CE2	TYR	A	100	-13.974	9.690	-10.726	1.00	25.65	A C
ATOM	768	CZ	TYR	A	100	-14.179	10.584	-9.689	1.00	26.89	A C
ATOM	769	OH	TYR	A	100	-13.218	11.511	-9.374	1.00	24.42	A O
ATOM	770	C	TYR	A	100	-18.395	9.260	-12.094	1.00	27.77	A C
ATOM	771	O	TYR	A	100	-18.282	10.460	-11.865	1.00	27.83	A O
ATOM	772	N	THR	A	101	-18.394	8.785	-13.336	1.00	28.66	A N
ATOM	773	CA	THR	A	101	-18.262	9.705	-14.476	1.00	28.76	A C
ATOM	774	CB	THR	A	101	-18.279	8.964	-15.821	1.00	30.99	A C
ATOM	775	OG1	THR	A	101	-17.093	8.182	-15.953	1.00	30.58	A O
ATOM	776	CG2	THR	A	101	-18.366	9.972	-16.987	1.00	31.30	A C
ATOM	777	C	THR	A	101	-19.379	10.748	-14.520	1.00	29.14	A C
ATOM	778	O	THR	A	101	-19.147	11.942	-14.753	1.00	27.52	A O
ATOM	779	N	GLU	A	102	-20.603	10.288	-14.308	1.00	29.96	A N
ATOM	780	CA	GLU	A	102	-21.748	11.176	-14.323	1.00	31.24	A C
ATOM	781	CB	GLU	A	102	-23.031	10.346	-14.242	1.00	35.05	A C
ATOM	782	CG	GLU	A	102	-24.110	10.768	-15.221	1.00	39.79	A C
ATOM	783	CD	GLU	A	102	-25.318	9.823	-15.193	1.00	43.14	A C
ATOM	784	OE1	GLU	A	102	-25.778	9.475	-14.077	1.00	42.58	A O
ATOM	785	OE2	GLU	A	102	-25.819	9.436	-16.286	1.00	44.97	A O
ATOM	786	C	GLU	A	102	-21.687	12.174	-13.169	1.00	31.26	A C
ATOM	787	O	GLU	A	102	-22.221	13.271	-13.281	1.00	31.30	A O
ATOM	788	N	ILE	A	103	-21.062	11.803	-12.049	1.00	30.42	A N
ATOM	789	CA	ILE	A	103	-20.977	12.750	-10.942	1.00	29.74	A C
ATOM	790	CB	ILE	A	103	-20.303	12.157	-9.653	1.00	30.44	A C
ATOM	791	CG2	ILE	A	103	-19.991	13.283	-8.668	1.00	29.04	A C
ATOM	792	CG1	ILE	A	103	-21.216	11.118	-8.997	1.00	31.33	A C
ATOM	793	CD1	ILE	A	103	-22.596	11.652	-8.636	1.00	31.81	A C
ATOM	794	C	ILE	A	103	-20.156	13.946	-11.382	1.00	29.36	A C
ATOM	795	O	ILE	A	103	-20.566	15.095	-11.177	1.00	27.85	A O
ATOM	796	N	LEU	A	104	-19.003	13.679	-12.003	1.00	29.20	A N
ATOM	797	CA	LEU	A	104	-18.139	14.760	-12.447	1.00	29.12	A C
ATOM	798	CB	LEU	A	104	-16.856	14.216	-13.080	1.00	29.35	A C
ATOM	799	CG	LEU	A	104	-15.875	13.532	-12.119	1.00	27.56	A C
ATOM	800	CD1	LEU	A	104	-14.640	13.095	-12.850	1.00	28.68	A C
ATOM	801	CD2	LEU	A	104	-15.490	14.474	-11.011	1.00	28.99	A C
ATOM	802	C	LEU	A	104	-18.872	15.691	-13.394	1.00	30.56	A C
ATOM	803	O	LEU	A	104	-18.791	16.918	-13.248	1.00	31.04	A O
ATOM	804	N	GLU	A	105	-19.639	15.114	-14.316	1.00	31.51	A N
ATOM	805	CA	GLU	A	105	-20.417	15.896	-15.286	1.00	32.70	A C
ATOM	806	CB	GLU	A	105	-21.157	14.972	-16.223	1.00	34.44	A C
ATOM	807	CG	GLU	A	105	-20.283	14.097	-17.030	1.00	38.89	A C
ATOM	808	CD	GLU	A	105	-21.110	13.085	-17.769	1.00	43.35	A C
ATOM	809	OE1	GLU	A	105	-22.166	13.505	-18.312	1.00	46.36	A O
ATOM	810	OE2	GLU	A	105	-20.719	11.890	-17.806	1.00	45.07	A O
ATOM	811	C	GLU	A	105	-21.442	16.845	-14.678	1.00	31.88	A C
ATOM	812	O	GLU	A	105	-21.480	18.034	-15.016	1.00	31.15	A O
ATOM	813	N	VAL	A	106	-22.286	16.307	-13.798	1.00	32.65	A N
ATOM	814	CA	VAL	A	106	-23.311	17.106	-13.114	1.00	31.45	A C
ATOM	815	CB	VAL	A	106	-24.301	16.220	-12.241	1.00	31.48	A C
ATOM	816	CG1	VAL	A	106	-23.563	15.415	-11.208	1.00	30.71	A C
ATOM	817	CG2	VAL	A	106	-25.279	17.110	-11.517	1.00	32.08	A C
ATOM	818	C	VAL	A	106	-22.595	18.125	-12.236	1.00	30.84	A C

ATOM	819	O	VAL	A	106	-23.087	19.230	-12.031	1.00	30.83	A O
ATOM	820	N	LEU	A	107	-21.416	17.778	-11.732	1.00	30.59	A N
ATOM	821	CA	LEU	A	107	-20.700	18.750	-10.915	1.00	30.91	A C
ATOM	822	CB	LEU	A	107	-19.595	18.076	-10.084	1.00	29.16	A C
ATOM	823	CG	LEU	A	107	-19.995	17.574	-8.679	1.00	28.92	A C
ATOM	824	CD1	LEU	A	107	-18.775	16.914	-8.003	1.00	24.64	A C
ATOM	825	CD2	LEU	A	107	-20.496	18.747	-7.815	1.00	24.43	A C
ATOM	826	C	LEU	A	107	-20.131	19.819	-11.848	1.00	31.20	A C
ATOM	827	O	LEU	A	107	-20.017	20.982	-11.467	1.00	33.06	A O
ATOM	828	N	GLU	A	108	-19.787	19.433	-13.072	1.00	31.54	A N
ATOM	829	CA	GLU	A	108	-19.260	20.392	-14.066	1.00	32.65	A C
ATOM	830	CB	GLU	A	108	-18.720	19.680	-15.323	1.00	34.31	A C
ATOM	831	CG	GLU	A	108	-17.740	20.549	-16.082	1.00	40.13	A C
ATOM	832	CD	GLU	A	108	-17.473	20.095	-17.516	1.00	43.79	A C
ATOM	833	OE1	GLU	A	108	-17.108	18.906	-17.750	1.00	46.24	A O
ATOM	834	OE2	GLU	A	108	-17.617	20.951	-18.415	1.00	44.22	A O
ATOM	835	C	GLU	A	108	-20.404	21.287	-14.499	1.00	30.88	A C
ATOM	836	O	GLU	A	108	-20.264	22.508	-14.545	1.00	30.21	A O
ATOM	837	N	LYS	A	109	-21.536	20.663	-14.809	1.00	29.52	A N
ATOM	838	CA	LYS	A	109	-22.724	21.396	-15.236	1.00	32.07	A C
ATOM	839	CB	LYS	A	109	-23.831	20.405	-15.634	1.00	34.34	A C
ATOM	840	CG	LYS	A	109	-24.649	20.805	-16.845	1.00	38.44	A C
ATOM	841	CD	LYS	A	109	-25.490	19.600	-17.326	1.00	43.66	A C
ATOM	842	CE	LYS	A	109	-26.455	19.941	-18.487	1.00	43.35	A C
ATOM	843	NZ	LYS	A	109	-27.290	18.769	-18.900	1.00	43.67	A N
ATOM	844	C	LYS	A	109	-23.221	22.334	-14.121	1.00	32.43	A C
ATOM	845	O	LYS	A	109	-23.583	23.471	-14.396	1.00	34.43	A O
ATOM	846	N	THR	A	110	-23.227	21.857	-12.871	1.00	30.62	A N
ATOM	847	CA	THR	A	110	-23.663	22.645	-11.719	1.00	29.02	A C
ATOM	848	CB	THR	A	110	-23.593	21.788	-10.402	1.00	27.81	A C
ATOM	849	OG1	THR	A	110	-24.554	20.734	-10.465	1.00	23.98	A O
ATOM	850	CG2	THR	A	110	-23.867	22.616	-9.184	1.00	24.33	A C
ATOM	851	C	THR	A	110	-22.793	23.897	-11.553	1.00	30.18	A C
ATOM	852	O	THR	A	110	-23.293	25.020	-11.416	1.00	29.37	A O
ATOM	853	N	MSE	A	111	-21.483	23.703	-11.557	1.00	31.93	A N
ATOM	854	CA	MSE	A	111	-20.573	24.839	-11.400	1.00	34.55	A C
ATOM	855	CB	MSE	A	111	-19.120	24.361	-11.344	1.00	35.25	A C
ATOM	856	CG	MSE	A	111	-18.786	23.494	-10.119	1.00	38.73	A C
ATOM	857	SE	MSE	A	111	-19.238	24.355	-8.388	1.00	43.60	A S
ATOM	858	CE	MSE	A	111	-19.615	22.703	-7.444	1.00	39.87	A C
ATOM	859	C	MSE	A	111	-20.769	25.865	-12.517	1.00	34.87	A C
ATOM	860	O	MSE	A	111	-20.594	27.056	-12.298	1.00	36.31	A O
ATOM	861	N	GLN	A	112	-21.165	25.410	-13.704	1.00	35.29	A N
ATOM	862	CA	GLN	A	112	-21.378	26.325	-14.813	1.00	35.01	A C
ATOM	863	CB	GLN	A	112	-21.480	25.541	-16.123	1.00	35.36	A C
ATOM	864	CG	GLN	A	112	-20.203	24.758	-16.439	1.00	39.14	A C
ATOM	865	CD	GLN	A	112	-20.227	24.049	-17.798	1.00	41.88	A C
ATOM	866	OE1	GLN	A	112	-21.193	23.341	-18.133	1.00	42.68	A O
ATOM	867	NE2	GLN	A	112	-19.152	24.227	-18.583	1.00	40.68	A N
ATOM	868	C	GLN	A	112	-22.595	27.234	-14.594	1.00	35.07	A C
ATOM	869	O	GLN	A	112	-22.564	28.401	-14.988	1.00	36.73	A O
ATOM	870	N	ASP	A	113	-23.651	26.714	-13.956	1.00	34.35	A N
ATOM	871	CA	ASP	A	113	-24.852	27.499	-13.656	1.00	31.71	A C
ATOM	872	CB	ASP	A	113	-26.031	26.597	-13.320	1.00	34.54	A C
ATOM	873	CG	ASP	A	113	-26.510	25.814	-14.507	1.00	36.73	A C
ATOM	874	OD1	ASP	A	113	-26.132	26.180	-15.651	1.00	37.40	A O
ATOM	875	OD2	ASP	A	113	-27.270	24.837	-14.296	1.00	39.19	A O

Table 7

ATOM	876	C	ASP	A	113	-24.623	28.422	-12.484	1.00	30.42	A C
ATOM	877	O	ASP	A	113	-25.219	29.494	-12.410	1.00	31.24	A O
ATOM	878	N	VAL	A	114	-23.776	28.000	-11.551	1.00	29.07	A N
ATOM	879	CA	VAL	A	114	-23.456	28.831	-10.395	1.00	27.15	A C
ATOM	880	CB	VAL	A	114	-22.395	28.136	-9.453	1.00	23.59	A C
ATOM	881	CG1	VAL	A	114	-21.954	29.073	-8.320	1.00	20.36	A C
ATOM	882	CG2	VAL	A	114	-22.979	26.879	-8.878	1.00	20.86	A C
ATOM	883	C	VAL	A	114	-22.916	30.149	-10.930	1.00	30.00	A C
ATOM	884	O	VAL	A	114	-23.229	31.214	-10.388	1.00	31.16	A O
ATOM	885	N	LEU	A	115	-22.121	30.080	-12.006	1.00	32.35	A N
ATOM	886	CA	LEU	A	115	-21.551	31.287	-12.633	1.00	33.17	A C
ATOM	887	CB	LEU	A	115	-20.416	30.923	-13.609	1.00	35.59	A C
ATOM	888	CG	LEU	A	115	-19.272	30.138	-12.956	1.00	36.27	A C
ATOM	889	CD1	LEU	A	115	-18.216	29.809	-13.972	1.00	36.05	A C
ATOM	890	CD2	LEU	A	115	-18.686	30.956	-11.803	1.00	37.44	A C
ATOM	891	C	LEU	A	115	-22.599	32.128	-13.361	1.00	33.24	A C
ATOM	892	O	LEU	A	115	-22.346	33.279	-13.681	1.00	34.75	A O
ATOM	893	N	LYS	A	116	-23.768	31.561	-13.639	1.00	32.56	A N
ATOM	894	CA	LYS	A	116	-24.833	32.333	-14.276	1.00	32.66	A C
ATOM	895	CB	LYS	A	116	-25.566	31.480	-15.318	1.00	33.63	A C
ATOM	896	CG	LYS	A	116	-24.721	31.092	-16.524	1.00	35.92	A C
ATOM	897	CD	LYS	A	116	-25.476	30.084	-17.371	1.00	37.11	A C
ATOM	898	CE	LYS	A	116	-24.658	29.548	-18.520	1.00	37.20	A C
ATOM	899	NZ	LYS	A	116	-25.487	28.515	-19.194	1.00	39.82	A N
ATOM	900	C	LYS	A	116	-25.852	32.892	-13.260	1.00	32.59	A C
ATOM	901	O	LYS	A	116	-26.635	33.782	-13.596	1.00	33.24	A O
ATOM	902	N	ALA	A	117	-25.843	32.378	-12.027	1.00	31.11	A N
ATOM	903	CA	ALA	A	117	-26.773	32.821	-10.979	1.00	29.98	A C
ATOM	904	CB	ALA	A	117	-26.467	32.131	-9.658	1.00	30.72	A C
ATOM	905	C	ALA	A	117	-26.787	34.311	-10.744	1.00	29.05	A C
ATOM	906	O	ALA	A	117	-25.752	34.954	-10.754	1.00	27.16	A O
ATOM	907	N	LYS	A	118	-27.976	34.852	-10.514	1.00	29.52	A N
ATOM	908	CA	LYS	A	118	-28.114	36.265	-10.266	1.00	30.26	A C
ATOM	909	CB	LYS	A	118	-29.298	36.798	-11.084	1.00	32.91	A C
ATOM	910	CG	LYS	A	118	-28.917	36.837	-12.587	1.00	37.61	A C
ATOM	911	CD	LYS	A	118	-29.888	37.615	-13.501	1.00	42.86	A C
ATOM	912	CE	LYS	A	118	-29.733	37.176	-15.014	1.00	44.13	A C
ATOM	913	NZ	LYS	A	118	-30.651	37.849	-16.003	1.00	41.38	A N
ATOM	914	C	LYS	A	118	-28.219	36.577	-8.770	1.00	30.86	A C
ATOM	915	O	LYS	A	118	-27.962	37.709	-8.350	1.00	30.57	A O
ATOM	916	N	GLU	A	122	-28.571	35.570	-7.964	1.00	28.70	A N
ATOM	917	CA	GLU	A	122	-28.680	35.749	-6.511	1.00	27.39	A C
ATOM	918	CB	GLU	A	122	-30.120	36.037	-6.102	1.00	27.70	A C
ATOM	919	CG	GLU	A	122	-31.046	34.862	-6.458	1.00	30.69	A C
ATOM	920	CD	GLU	A	122	-32.441	34.906	-5.812	1.00	33.91	A C
ATOM	921	OE1	GLU	A	122	-32.705	35.790	-4.932	1.00	33.63	A O
ATOM	922	OE2	GLU	A	122	-33.262	34.022	-6.205	1.00	34.17	A O
ATOM	923	C	GLU	A	122	-28.294	34.436	-5.837	1.00	26.59	A C
ATOM	924	O	GLU	A	122	-28.316	33.369	-6.455	1.00	26.09	A O
ATOM	925	N	VAL	A	123	-27.928	34.512	-4.568	1.00	24.05	A N
ATOM	926	CA	VAL	A	123	-27.636	33.300	-3.834	1.00	21.89	A C
ATOM	927	CB	VAL	A	123	-26.825	33.623	-2.558	1.00	21.34	A C
ATOM	928	CG1	VAL	A	123	-26.572	32.370	-1.752	1.00	21.27	A C
ATOM	929	CG2	VAL	A	123	-25.505	34.269	-2.930	1.00	17.63	A C
ATOM	930	C	VAL	A	123	-29.101	32.965	-3.498	1.00	20.54	A C
ATOM	931	O	VAL	A	123	-29.852	33.848	-3.077	1.00	18.89	A O
ATOM	932	N	PRO	A	124	-29.548	31.724	-3.750	1.00	18.57	A N

Table 7

ATOM	933	CD	PRO	A	124	-28.954	30.622	-4.520	1.00	16.54	A C
ATOM	934	CA	PRO	A	124	-30.951	31.436	-3.415	1.00	19.26	A C
ATOM	935	CB	PRO	A	124	-31.242	30.168	-4.197	1.00	18.81	A C
ATOM	936	CG	PRO	A	124	-29.897	29.467	-4.201	1.00	17.42	A C
ATOM	937	C	PRO	A	124	-31.218	31.222	-1.930	1.00	20.12	A C
ATOM	938	O	PRO	A	124	-30.449	30.538	-1.250	1.00	21.34	A O
ATOM	939	N	ALA	A	125	-32.312	31.793	-1.437	1.00	20.72	A N
ATOM	940	CA	ALA	A	125	-32.714	31.605	-0.044	1.00	21.82	A C
ATOM	941	CB	ALA	A	125	-32.770	30.093	0.296	1.00	19.65	A C
ATOM	942	C	ALA	A	125	-31.801	32.328	0.942	1.00	23.88	A C
ATOM	943	O	ALA	A	125	-31.628	31.881	2.074	1.00	23.90	A O
ATOM	944	N	SER	A	126	-31.211	33.446	0.515	1.00	24.75	A N
ATOM	945	CA	SER	A	126	-30.360	34.211	1.406	1.00	24.47	A C
ATOM	946	CB	SER	A	126	-29.232	34.866	0.616	1.00	25.96	A C
ATOM	947	OG	SER	A	126	-29.718	35.448	-0.584	1.00	25.89	A O
ATOM	948	C	SER	A	126	-31.200	35.272	2.114	1.00	25.23	A C
ATOM	949	O	SER	A	126	-30.974	36.458	1.959	1.00	27.88	A O
ATOM	950	N	ASN	A	127	-32.182	34.841	2.883	1.00	25.10	A N
ATOM	951	CA	ASN	A	127	-33.041	35.772	3.617	1.00	23.73	A C
ATOM	952	CB	ASN	A	127	-34.320	36.042	2.800	1.00	20.92	A C
ATOM	953	CG	ASN	A	127	-35.142	34.808	2.588	1.00	19.33	A C
ATOM	954	OD1	ASN	A	127	-35.664	34.257	3.531	1.00	17.49	A O
ATOM	955	ND2	ASN	A	127	-35.262	34.357	1.334	1.00	21.52	A N
ATOM	956	C	ASN	A	127	-33.347	35.137	4.997	1.00	22.40	A C
ATOM	957	O	ASN	A	127	-33.079	33.963	5.185	1.00	21.27	A O
ATOM	958	N	GLU	A	128	-33.909	35.896	5.936	1.00	23.55	A N
ATOM	959	CA	GLU	A	128	-34.163	35.381	7.285	1.00	26.84	A C
ATOM	960	CB	GLU	A	128	-34.429	36.538	8.281	1.00	29.17	A C
ATOM	961	CG	GLU	A	128	-33.242	37.546	8.336	1.00	33.25	A C
ATOM	962	CD	GLU	A	128	-33.491	38.799	9.210	1.00	35.45	A C
ATOM	963	OE1	GLU	A	128	-34.663	39.131	9.498	1.00	38.31	A O
ATOM	964	OE2	GLU	A	128	-32.503	39.466	9.596	1.00	36.29	A O
ATOM	965	C	GLU	A	128	-35.244	34.323	7.398	1.00	25.94	A C
ATOM	966	O	GLU	A	128	-35.263	33.593	8.375	1.00	26.06	A O
ATOM	967	N	LYS	A	129	-36.126	34.216	6.414	1.00	24.00	A N
ATOM	968	CA	LYS	A	129	-37.134	33.182	6.494	1.00	24.87	A C
ATOM	969	CB	LYS	A	129	-38.376	33.562	5.673	1.00	24.25	A C
ATOM	970	CG	LYS	A	129	-39.255	34.648	6.283	1.00	24.04	A C
ATOM	971	CD	LYS	A	129	-40.243	35.185	5.269	1.00	24.70	A C
ATOM	972	CE	LYS	A	129	-41.395	35.951	5.943	1.00	27.78	A C
ATOM	973	NZ	LYS	A	129	-41.008	37.181	6.667	1.00	28.55	A N
ATOM	974	C	LYS	A	129	-36.603	31.817	6.016	1.00	26.04	A C
ATOM	975	O	LYS	A	129	-37.124	30.781	6.404	1.00	26.47	A O
ATOM	976	N	GLN	A	130	-35.554	31.783	5.210	1.00	26.44	A N
ATOM	977	CA	GLN	A	130	-35.127	30.471	4.720	1.00	29.29	A C
ATOM	978	CB	GLN	A	130	-35.371	30.366	3.213	1.00	27.87	A C
ATOM	979	CG	GLN	A	130	-36.470	31.254	2.703	1.00	27.93	A C
ATOM	980	CD	GLN	A	130	-36.650	31.114	1.206	1.00	26.42	A C
ATOM	981	OE1	GLN	A	130	-37.259	30.165	0.735	1.00	26.20	A O
ATOM	982	NE2	GLN	A	130	-36.101	32.049	0.457	1.00	26.64	A N
ATOM	983	C	GLN	A	130	-33.678	30.104	4.988	1.00	29.48	A C
ATOM	984	O	GLN	A	130	-33.180	29.098	4.474	1.00	30.12	A O
ATOM	985	N	CYS	A	131	-33.022	30.907	5.810	1.00	29.06	A N
ATOM	986	CA	CYS	A	131	-31.618	30.700	6.118	1.00	29.09	A C
ATOM	987	CB	CYS	A	131	-30.788	31.551	5.163	1.00	26.64	A C
ATOM	988	SG	CYS	A	131	-29.086	31.555	5.546	1.00	26.22	A S
ATOM	989	C	CYS	A	131	-31.321	31.095	7.553	1.00	27.50	A C

Table 7

ATOM	990	O	CYS	A	131	-31.855	32.079	8.033	1.00	29.57	A	O
ATOM	991	N	GLY	A	132	-30.464	30.333	8.212	1.00	26.74	A	N
ATOM	992	CA	GLY	A	132	-30.103	30.619	9.590	1.00	27.41	A	C
ATOM	993	C	GLY	A	132	-29.154	31.780	9.881	1.00	26.92	A	C
ATOM	994	O	GLY	A	132	-29.029	32.173	11.042	1.00	27.77	A	O
ATOM	995	N	TRP	A	133	-28.448	32.292	8.872	1.00	27.26	A	N
ATOM	996	CA	TRP	A	133	-27.540	33.461	9.033	1.00	26.64	A	C
ATOM	997	CB	TRP	A	133	-26.103	33.022	9.356	1.00	27.87	A	C
ATOM	998	CG	TRP	A	133	-25.278	34.159	9.854	1.00	32.22	A	C
ATOM	999	CD2	TRP	A	133	-23.881	34.144	10.213	1.00	31.76	A	C
ATOM	1000	CE2	TRP	A	133	-23.526	35.469	10.570	1.00	31.57	A	C
ATOM	1001	CE3	TRP	A	133	-22.901	33.150	10.259	1.00	30.12	A	C
ATOM	1002	CD1	TRP	A	133	-25.694	35.453	10.020	1.00	32.22	A	C
ATOM	1003	NE1	TRP	A	133	-24.648	36.242	10.444	1.00	32.11	A	N
ATOM	1004	CZ2	TRP	A	133	-22.230	35.819	10.970	1.00	29.58	A	C
ATOM	1005	CZ3	TRP	A	133	-21.613	33.501	10.657	1.00	29.49	A	C
ATOM	1006	CH2	TRP	A	133	-21.290	34.821	11.002	1.00	29.40	A	C
ATOM	1007	C	TRP	A	133	-27.594	34.182	7.686	1.00	25.69	A	C
ATOM	1008	O	TRP	A	133	-26.614	34.211	6.946	1.00	25.62	A	O
ATOM	1009	N	ALA	A	134	-28.757	34.759	7.370	1.00	24.98	A	N
ATOM	1010	CA	ALA	A	134	-28.959	35.380	6.064	1.00	25.10	A	C
ATOM	1011	CB	ALA	A	134	-30.377	35.944	5.948	1.00	23.66	A	C
ATOM	1012	C	ALA	A	134	-27.955	36.433	5.663	1.00	26.13	A	C
ATOM	1013	O	ALA	A	134	-27.594	36.521	4.497	1.00	23.85	A	O
ATOM	1014	N	ALA	A	135	-27.513	37.238	6.619	1.00	27.62	A	N
ATOM	1015	CA	ALA	A	135	-26.549	38.291	6.325	1.00	29.20	A	C
ATOM	1016	CB	ALA	A	135	-26.358	39.192	7.571	1.00	27.80	A	C
ATOM	1017	C	ALA	A	135	-25.181	37.793	5.848	1.00	29.49	A	C
ATOM	1018	O	ALA	A	135	-24.476	38.513	5.139	1.00	31.83	A	O
ATOM	1019	N	ASN	A	136	-24.814	36.569	6.223	1.00	30.03	A	N
ATOM	1020	CA	ASN	A	136	-23.502	35.992	5.882	1.00	28.26	A	C
ATOM	1021	CB	ASN	A	136	-23.105	34.998	6.985	1.00	28.87	A	C
ATOM	1022	CG	ASN	A	136	-21.608	35.004	7.278	1.00	31.95	A	C
ATOM	1023	OD1	ASN	A	136	-20.979	36.065	7.299	1.00	32.24	A	O
ATOM	1024	ND2	ASN	A	136	-21.034	33.818	7.525	1.00	31.62	A	N
ATOM	1025	C	ASN	A	136	-23.421	35.320	4.517	1.00	28.62	A	C
ATOM	1026	O	ASN	A	136	-23.338	34.096	4.419	1.00	29.80	A	O
ATOM	1027	N	HIS	A	137	-23.408	36.114	3.459	1.00	28.43	A	N
ATOM	1028	CA	HIS	A	137	-23.329	35.566	2.101	1.00	29.35	A	C
ATOM	1029	CB	HIS	A	137	-24.734	35.402	1.513	1.00	28.18	A	C
ATOM	1030	CG	HIS	A	137	-25.449	34.156	1.934	1.00	28.47	A	C
ATOM	1031	CD2	HIS	A	137	-26.529	33.975	2.736	1.00	24.96	A	C
ATOM	1032	ND1	HIS	A	137	-25.089	32.903	1.482	1.00	26.74	A	N
ATOM	1033	CE1	HIS	A	137	-25.918	32.007	1.989	1.00	26.33	A	C
ATOM	1034	NE2	HIS	A	137	-26.799	32.631	2.753	1.00	26.53	A	N
ATOM	1035	C	HIS	A	137	-22.555	36.467	1.128	1.00	29.68	A	C
ATOM	1036	O	HIS	A	137	-22.192	37.595	1.446	1.00	30.40	A	O
ATOM	1037	N	THR	A	138	-22.320	35.944	-0.069	1.00	29.91	A	N
ATOM	1038	CA	THR	A	138	-21.686	36.684	-1.155	1.00	29.69	A	C
ATOM	1039	CB	THR	A	138	-20.208	37.003	-0.897	1.00	29.55	A	C
ATOM	1040	OG1	THR	A	138	-19.613	37.427	-2.129	1.00	30.66	A	O
ATOM	1041	CG2	THR	A	138	-19.473	35.776	-0.382	1.00	31.30	A	C
ATOM	1042	C	THR	A	138	-21.794	35.854	-2.427	1.00	29.47	A	C
ATOM	1043	O	THR	A	138	-21.183	34.779	-2.547	1.00	29.28	A	O
ATOM	1044	N	LEU	A	139	-22.604	36.338	-3.362	1.00	29.26	A	N
ATOM	1045	CA	LEU	A	139	-22.789	35.646	-4.625	1.00	29.58	A	C
ATOM	1046	CB	LEU	A	139	-23.781	36.411	-5.507	1.00	29.38	A	C

Table 7

ATOM	1047	CG	LEU	A	139	-24.592	35.708	-6.618	1.00	29.37	A C
ATOM	1048	CD1	LEU	A	139	-24.680	36.600	-7.862	1.00	26.71	A C
ATOM	1049	CD2	LEU	A	139	-23.965	34.409	-6.970	1.00	27.37	A C
ATOM	1050	C	LEU	A	139	-21.434	35.589	-5.318	1.00	30.30	A C
ATOM	1051	O	LEU	A	139	-20.969	34.533	-5.719	1.00	29.18	A O
ATOM	1052	N	GLU	A	140	-20.801	36.754	-5.446	1.00	34.25	A N
ATOM	1053	CA	GLU	A	140	-19.500	36.871	-6.111	1.00	35.31	A C
ATOM	1054	CB	GLU	A	140	-18.989	38.315	-6.030	1.00	38.75	A C
ATOM	1055	CG	GLU	A	140	-17.898	38.611	-7.051	1.00	45.89	A C
ATOM	1056	CD	GLU	A	140	-17.461	40.078	-7.048	1.00	50.10	A C
ATOM	1057	OE1	GLU	A	140	-18.353	40.959	-6.930	1.00	51.99	A O
ATOM	1058	OE2	GLU	A	140	-16.230	40.346	-7.174	1.00	50.89	A O
ATOM	1059	C	GLU	A	140	-18.490	35.927	-5.475	1.00	34.03	A C
ATOM	1060	O	GLU	A	140	-17.819	35.179	-6.172	1.00	33.67	A O
ATOM	1061	N	GLY	A	141	-18.374	35.966	-4.154	1.00	32.72	A N
ATOM	1062	CA	GLY	A	141	-17.444	35.058	-3.506	1.00	34.84	A C
ATOM	1063	C	GLY	A	141	-17.738	33.593	-3.860	1.00	35.64	A C
ATOM	1064	O	GLY	A	141	-16.822	32.823	-4.120	1.00	35.50	A O
ATOM	1065	N	ALA	A	142	-19.010	33.204	-3.881	1.00	33.98	A N
ATOM	1066	CA	ALA	A	142	-19.344	31.835	-4.222	1.00	34.33	A C
ATOM	1067	CB	ALA	A	142	-20.818	31.591	-4.027	1.00	33.32	A C
ATOM	1068	C	ALA	A	142	-18.948	31.543	-5.662	1.00	34.09	A C
ATOM	1069	O	ALA	A	142	-18.459	30.455	-5.972	1.00	34.40	A O
ATOM	1070	N	GLN	A	143	-19.163	32.516	-6.542	1.00	34.37	A N
ATOM	1071	CA	GLN	A	143	-18.810	32.366	-7.960	1.00	33.73	A C
ATOM	1072	CB	GLN	A	143	-19.431	33.497	-8.791	1.00	31.87	A C
ATOM	1073	CG	GLN	A	143	-20.941	33.500	-8.773	1.00	30.20	A C
ATOM	1074	CD	GLN	A	143	-21.547	34.616	-9.612	1.00	30.29	A C
ATOM	1075	OE1	GLN	A	143	-21.131	35.769	-9.530	1.00	30.89	A O
ATOM	1076	NE2	GLN	A	143	-22.546	34.276	-10.407	1.00	30.56	A N
ATOM	1077	C	GLN	A	143	-17.287	32.318	-8.198	1.00	33.54	A C
ATOM	1078	O	GLN	A	143	-16.840	31.741	-9.202	1.00	33.82	A O
ATOM	1079	N	ASN	A	144	-16.497	32.922	-7.299	1.00	32.92	A N
ATOM	1080	CA	ASN	A	144	-15.030	32.880	-7.416	1.00	33.12	A C
ATOM	1081	CB	ASN	A	144	-14.359	33.896	-6.491	1.00	33.08	A C
ATOM	1082	CG	ASN	A	144	-14.595	35.315	-6.920	1.00	31.10	A C
ATOM	1083	OD1	ASN	A	144	-14.616	35.628	-8.110	1.00	29.99	A O
ATOM	1084	ND2	ASN	A	144	-14.760	36.191	-5.950	1.00	32.89	A N
ATOM	1085	C	ASN	A	144	-14.516	31.483	-7.060	1.00	34.23	A C
ATOM	1086	O	ASN	A	144	-13.550	31.007	-7.658	1.00	36.66	A O
ATOM	1087	N	LEU	A	145	-15.137	30.825	-6.083	1.00	32.90	A N
ATOM	1088	CA	LEU	A	145	-14.734	29.461	-5.748	1.00	32.99	A C
ATOM	1089	CB	LEU	A	145	-15.373	29.001	-4.433	1.00	31.21	A C
ATOM	1090	CG	LEU	A	145	-14.846	29.665	-3.185	1.00	30.76	A C
ATOM	1091	CD1	LEU	A	145	-15.722	29.331	-1.993	1.00	29.26	A C
ATOM	1092	CD2	LEU	A	145	-13.417	29.216	-2.984	1.00	28.92	A C
ATOM	1093	C	LEU	A	145	-15.208	28.534	-6.864	1.00	34.00	A C
ATOM	1094	O	LEU	A	145	-14.549	27.530	-7.211	1.00	36.21	A O
ATOM	1095	N	ALA	A	146	-16.376	28.838	-7.413	1.00	33.50	A N
ATOM	1096	CA	ALA	A	146	-16.892	27.995	-8.475	1.00	34.92	A C
ATOM	1097	CB	ALA	A	146	-18.326	28.352	-8.778	1.00	32.30	A C
ATOM	1098	C	ALA	A	146	-16.007	28.105	-9.722	1.00	36.18	A C
ATOM	1099	O	ALA	A	146	-15.749	27.112	-10.394	1.00	36.92	A O
ATOM	1100	N	ARG	A	147	-15.513	29.301	-10.018	1.00	38.47	A N
ATOM	1101	CA	ARG	A	147	-14.647	29.485	-11.190	1.00	39.95	A C
ATOM	1102	CB	ARG	A	147	-14.435	30.979	-11.447	1.00	42.11	A C
ATOM	1103	CG	ARG	A	147	-13.790	31.287	-12.760	1.00	45.48	A C

Table 7

ATOM	1104	CD	ARG	A	147	-13.915	32.762	-13.079	1.00	48.80	A	C
ATOM	1105	NE	ARG	A	147	-15.252	33.145	-13.536	1.00	50.72	A	N
ATOM	1106	CZ	ARG	A	147	-16.205	33.685	-12.772	1.00	52.62	A	C
ATOM	1107	NH1	ARG	A	147	-15.990	33.911	-11.470	1.00	51.62	A	N
ATOM	1108	NH2	ARG	A	147	-17.374	34.038	-13.330	1.00	52.01	A	N
ATOM	1109	C	ARG	A	147	-13.291	28.773	-11.026	1.00	38.89	A	C
ATOM	1110	O	ARG	A	147	-12.838	28.051	-11.930	1.00	38.56	A	O
ATOM	1111	N	ALA	A	148	-12.644	28.969	-9.880	1.00	36.57	A	N
ATOM	1112	CA	ALA	A	148	-11.364	28.305	-9.641	1.00	36.34	A	C
ATOM	1113	CB	ALA	A	148	-10.834	28.663	-8.307	1.00	33.07	A	C
ATOM	1114	C	ALA	A	148	-11.493	26.786	-9.733	1.00	36.84	A	C
ATOM	1115	O	ALA	A	148	-10.609	26.111	-10.283	1.00	37.56	A	O
ATOM	1116	N	PHE	A	149	-12.589	26.253	-9.191	1.00	35.96	A	N
ATOM	1117	CA	PHE	A	149	-12.812	24.822	-9.207	1.00	34.84	A	C
ATOM	1118	CB	PHE	A	149	-14.090	24.471	-8.457	1.00	35.15	A	C
ATOM	1119	CG	PHE	A	149	-14.290	22.997	-8.242	1.00	32.79	A	C
ATOM	1120	CD1	PHE	A	149	-13.471	22.289	-7.378	1.00	33.72	A	C
ATOM	1121	CD2	PHE	A	149	-15.353	22.337	-8.830	1.00	32.81	A	C
ATOM	1122	CE1	PHE	A	149	-13.726	20.949	-7.100	1.00	32.50	A	C
ATOM	1123	CE2	PHE	A	149	-15.612	21.000	-8.554	1.00	30.67	A	C
ATOM	1124	CZ	PHE	A	149	-14.807	20.310	-7.694	1.00	30.69	A	C
ATOM	1125	C	PHE	A	149	-12.926	24.342	-10.628	1.00	35.31	A	C
ATOM	1126	O	PHE	A	149	-12.329	23.322	-10.985	1.00	35.77	A	O
ATOM	1127	N	LEU	A	150	-13.688	25.069	-11.440	1.00	34.83	A	N
ATOM	1128	CA	LEU	A	150	-13.875	24.696	-12.843	1.00	36.98	A	C
ATOM	1129	CB	LEU	A	150	-14.951	25.561	-13.487	1.00	37.82	A	C
ATOM	1130	CG	LEU	A	150	-16.388	25.050	-13.411	1.00	39.04	A	C
ATOM	1131	CD1	LEU	A	150	-17.334	25.956	-14.234	1.00	38.81	A	C
ATOM	1132	CD2	LEU	A	150	-16.405	23.639	-13.954	1.00	39.14	A	C
ATOM	1133	C	LEU	A	150	-12.622	24.764	-13.717	1.00	38.58	A	C
ATOM	1134	O	LEU	A	150	-12.425	23.916	-14.594	1.00	39.66	A	O
ATOM	1135	N	ASP	A	151	-11.779	25.766	-13.482	1.00	40.06	A	N
ATOM	1136	CA	ASP	A	151	-10.560	25.944	-14.271	1.00	42.02	A	C
ATOM	1137	CB	ASP	A	151	-9.835	27.238	-13.870	1.00	43.67	A	C
ATOM	1138	CG	ASP	A	151	-10.633	28.494	-14.238	1.00	46.53	A	C
ATOM	1139	OD1	ASP	A	151	-11.467	28.431	-15.182	1.00	46.23	A	O
ATOM	1140	OD2	ASP	A	151	-10.420	29.547	-13.590	1.00	48.39	A	O
ATOM	1141	C	ASP	A	151	-9.614	24.765	-14.153	1.00	42.81	A	C
ATOM	1142	O	ASP	A	151	-8.863	24.474	-15.092	1.00	41.11	A	O
ATOM	1143	N	LYS	A	152	-9.656	24.084	-13.004	1.00	42.44	A	N
ATOM	1144	CA	LYS	A	152	-8.805	22.919	-12.782	1.00	41.81	A	C
ATOM	1145	CB	LYS	A	152	-8.166	22.948	-11.393	1.00	42.97	A	C
ATOM	1146	CG	LYS	A	152	-7.146	24.047	-11.139	1.00	43.08	A	C
ATOM	1147	CD	LYS	A	152	-6.659	23.936	-9.704	1.00	46.55	A	C
ATOM	1148	CE	LYS	A	152	-5.643	24.991	-9.356	1.00	47.73	A	C
ATOM	1149	NZ	LYS	A	152	-4.535	24.946	-10.348	1.00	49.82	A	N
ATOM	1150	C	LYS	A	152	-9.601	21.636	-12.937	1.00	41.78	A	C
ATOM	1151	O	LYS	A	152	-9.293	20.627	-12.309	1.00	41.45	A	O
ATOM	1152	N	ARG	A	153	-10.607	21.690	-13.805	1.00	42.69	A	N
ATOM	1153	CA	ARG	A	153	-11.492	20.563	-14.105	1.00	42.66	A	C
ATOM	1154	CB	ARG	A	153	-12.523	21.002	-15.155	1.00	42.07	A	C
ATOM	1155	CG	ARG	A	153	-13.289	19.873	-15.826	1.00	41.48	A	C
ATOM	1156	CD	ARG	A	153	-14.026	19.027	-14.796	1.00	44.11	A	C
ATOM	1157	NE	ARG	A	153	-14.949	18.051	-15.394	1.00	45.51	A	N
ATOM	1158	CZ	ARG	A	153	-14.699	16.748	-15.538	1.00	44.47	A	C
ATOM	1159	NH1	ARG	A	153	-13.549	16.233	-15.131	1.00	42.41	A	N
ATOM	1160	NH2	ARG	A	153	-15.614	15.953	-16.081	1.00	44.28	A	N

Table 7

ATOM	1161	C	ARG	A	153	-10.797	19.279	-14.580	1.00	43.24	A C
ATOM	1162	O	ARG	A	153	-11.332	18.189	-14.407	1.00	44.14	A O
ATOM	1163	N	ALA	A	154	-9.619	19.397	-15.184	1.00	43.68	A N
ATOM	1164	CA	ALA	A	154	-8.897	18.218	-15.683	1.00	42.86	A C
ATOM	1165	CB	ALA	A	154	-7.795	18.643	-16.661	1.00	41.45	A C
ATOM	1166	C	ALA	A	154	-8.278	17.423	-14.562	1.00	42.41	A C
ATOM	1167	O	ALA	A	154	-7.844	16.296	-14.759	1.00	43.21	A O
ATOM	1168	N	GLU	A	155	-8.230	18.010	-13.381	1.00	42.67	A N
ATOM	1169	CA	GLU	A	155	-7.619	17.339	-12.250	1.00	43.32	A C
ATOM	1170	CB	GLU	A	155	-6.829	18.351	-11.429	1.00	45.36	A C
ATOM	1171	CG	GLU	A	155	-5.715	19.037	-12.152	1.00	50.13	A C
ATOM	1172	CD	GLU	A	155	-5.254	20.287	-11.418	1.00	51.68	A C
ATOM	1173	OE1	GLU	A	155	-4.919	20.190	-10.203	1.00	52.49	A O
ATOM	1174	OE2	GLU	A	155	-5.238	21.362	-12.064	1.00	51.75	A O
ATOM	1175	C	GLU	A	155	-8.587	16.632	-11.304	1.00	41.95	A C
ATOM	1176	O	GLU	A	155	-8.153	15.852	-10.462	1.00	40.77	A O
ATOM	1177	N	TRP	A	156	-9.880	16.912	-11.420	1.00	40.62	A N
ATOM	1178	CA	TRP	A	156	-10.856	16.306	-10.495	1.00	40.33	A C
ATOM	1179	CB	TRP	A	156	-12.281	16.521	-10.996	1.00	36.69	A C
ATOM	1180	CG	TRP	A	156	-12.683	17.944	-10.972	1.00	33.14	A C
ATOM	1181	CD2	TRP	A	156	-13.935	18.478	-11.397	1.00	31.29	A C
ATOM	1182	CE2	TRP	A	156	-13.861	19.875	-11.255	1.00	31.46	A C
ATOM	1183	CE3	TRP	A	156	-15.117	17.908	-11.878	1.00	29.89	A C
ATOM	1184	CD1	TRP	A	156	-11.918	19.005	-10.592	1.00	32.42	A C
ATOM	1185	NE1	TRP	A	156	-12.617	20.175	-10.762	1.00	31.99	A N
ATOM	1186	CZ2	TRP	A	156	-14.920	20.714	-11.593	1.00	31.63	A C
ATOM	1187	CZ3	TRP	A	156	-16.161	18.742	-12.212	1.00	30.12	A C
ATOM	1188	CH2	TRP	A	156	-16.059	20.128	-12.065	1.00	29.89	A C
ATOM	1189	C	TRP	A	156	-10.693	14.839	-10.141	1.00	39.98	A C
ATOM	1190	O	TRP	A	156	-10.910	14.446	-8.993	1.00	40.63	A O
ATOM	1191	N	SER	A	157	-10.315	14.034	-11.123	1.00	40.59	A N
ATOM	1192	CA	SER	A	157	-10.133	12.600	-10.930	1.00	41.96	A C
ATOM	1193	CB	SER	A	157	-10.297	11.893	-12.271	1.00	40.40	A C
ATOM	1194	OG	SER	A	157	-9.490	12.525	-13.249	1.00	42.74	A O
ATOM	1195	C	SER	A	157	-8.817	12.167	-10.263	1.00	42.86	A C
ATOM	1196	O	SER	A	157	-8.691	11.018	-9.836	1.00	43.47	A O
ATOM	1197	N	GLU	A	158	-7.842	13.065	-10.161	1.00	44.46	A N
ATOM	1198	CA	GLU	A	158	-6.575	12.710	-9.520	1.00	46.23	A C
ATOM	1199	CB	GLU	A	158	-5.396	13.233	-10.359	1.00	47.96	A C
ATOM	1200	CG	GLU	A	158	-5.394	12.615	-11.791	1.00	52.15	A C
ATOM	1201	CD	GLU	A	158	-4.236	13.065	-12.710	1.00	54.00	A C
ATOM	1202	OE1	GLU	A	158	-3.096	12.555	-12.549	1.00	54.97	A O
ATOM	1203	OE2	GLU	A	158	-4.481	13.917	-13.602	1.00	53.60	A O
ATOM	1204	C	GLU	A	158	-6.545	13.235	-8.077	1.00	46.58	A C
ATOM	1205	O	GLU	A	158	-6.336	14.421	-7.825	1.00	46.83	A O
ATOM	1206	N	VAL	A	159	-6.779	12.326	-7.135	1.00	46.12	A N
ATOM	1207	CA	VAL	A	159	-6.819	12.646	-5.715	1.00	46.20	A C
ATOM	1208	CB	VAL	A	159	-7.769	11.680	-4.950	1.00	46.03	A C
ATOM	1209	CG1	VAL	A	159	-7.901	12.126	-3.504	1.00	45.81	A C
ATOM	1210	CG2	VAL	A	159	-9.158	11.619	-5.640	1.00	46.74	A C
ATOM	1211	C	VAL	A	159	-5.433	12.537	-5.100	1.00	46.84	A C
ATOM	1212	O	VAL	A	159	-5.077	13.303	-4.196	1.00	45.65	A O
ATOM	1213	N	GLY	A	160	-4.665	11.566	-5.589	1.00	47.37	A N
ATOM	1214	CA	GLY	A	160	-3.321	11.348	-5.087	1.00	48.39	A C
ATOM	1215	C	GLY	A	160	-2.363	12.375	-5.652	1.00	48.11	A C
ATOM	1216	O	GLY	A	160	-1.206	12.452	-5.176	1.00	48.77	A O
ATOM	1217	OXT	GLY	A	160	-2.777	13.104	-6.580	1.00	48.44	A O

Table 7

TER	1218		GLY	A	160						A	
ATOM	1219	CB	MSE	B	3	-42.917	28.590	-4.217	1.00	41.66	B	C
ATOM	1220	CG	MSE	B	3	-41.474	28.259	-4.512	1.00	42.91	B	C
ATOM	1221	SE	MSE	B	3	-40.407	29.892	-4.880	1.00	48.28	B	S
ATOM	1222	CE	MSE	B	3	-41.651	31.251	-4.234	1.00	41.84	B	C
ATOM	1223	C	MSE	B	3	-43.029	26.403	-3.021	1.00	38.35	B	C
ATOM	1224	O	MSE	B	3	-42.856	26.575	-1.820	1.00	37.61	B	O
ATOM	1225	N	MSE	B	3	-45.054	27.881	-3.214	1.00	40.91	B	N
ATOM	1226	CA	MSE	B	3	-43.807	27.399	-3.865	1.00	40.54	B	C
ATOM	1227	N	LYS	B	4	-42.572	25.338	-3.656	1.00	38.14	B	N
ATOM	1228	CA	LYS	B	4	-41.795	24.340	-2.933	1.00	38.02	B	C
ATOM	1229	CB	LYS	B	4	-42.371	22.926	-3.087	1.00	38.58	B	C
ATOM	1230	CG	LYS	B	4	-42.095	22.077	-1.868	1.00	41.21	B	C
ATOM	1231	CD	LYS	B	4	-42.325	20.603	-2.085	1.00	43.67	B	C
ATOM	1232	CE	LYS	B	4	-41.029	19.799	-1.799	1.00	45.91	B	C
ATOM	1233	NZ	LYS	B	4	-41.271	18.326	-1.561	1.00	46.99	B	N
ATOM	1234	C	LYS	B	4	-40.380	24.368	-3.456	1.00	36.36	B	C
ATOM	1235	O	LYS	B	4	-40.107	24.120	-4.647	1.00	36.54	B	O
ATOM	1236	N	MSE	B	5	-39.481	24.708	-2.557	1.00	34.50	B	N
ATOM	1237	CA	MSE	B	5	-38.097	24.777	-2.898	1.00	33.32	B	C
ATOM	1238	CB	MSE	B	5	-37.333	25.485	-1.800	1.00	35.74	B	C
ATOM	1239	CG	MSE	B	5	-37.878	26.858	-1.428	1.00	40.88	B	C
ATOM	1240	SE	MSE	B	5	-37.497	28.242	-2.726	1.00	51.83	B	S
ATOM	1241	CE	MSE	B	5	-35.582	28.452	-2.497	1.00	44.80	B	C
ATOM	1242	C	MSE	B	5	-37.586	23.365	-3.053	1.00	33.92	B	C
ATOM	1243	O	MSE	B	5	-38.179	22.391	-2.549	1.00	34.99	B	O
ATOM	1244	N	ASN	B	6	-36.477	23.305	-3.774	1.00	33.69	B	N
ATOM	1245	CA	ASN	B	6	-35.688	22.131	-4.128	1.00	33.47	B	C
ATOM	1246	CB	ASN	B	6	-34.532	22.578	-5.031	1.00	36.12	B	C
ATOM	1247	CG	ASN	B	6	-34.538	21.892	-6.334	1.00	38.54	B	C
ATOM	1248	OD1	ASN	B	6	-35.096	20.796	-6.465	1.00	42.97	B	O
ATOM	1249	ND2	ASN	B	6	-33.918	22.508	-7.325	1.00	37.33	B	N
ATOM	1250	C	ASN	B	6	-35.048	21.512	-2.912	1.00	31.25	B	C
ATOM	1251	O	ASN	B	6	-34.891	20.319	-2.826	1.00	30.26	B	O
ATOM	1252	N	VAL	B	7	-34.623	22.381	-2.006	1.00	30.16	B	N
ATOM	1253	CA	VAL	B	7	-33.920	22.021	-0.792	1.00	28.95	B	C
ATOM	1254	CB	VAL	B	7	-32.855	23.081	-0.505	1.00	28.74	B	C
ATOM	1255	CG1	VAL	B	7	-32.068	22.712	0.771	1.00	27.07	B	C
ATOM	1256	CG2	VAL	B	7	-31.970	23.246	-1.729	1.00	26.04	B	C
ATOM	1257	C	VAL	B	7	-34.956	22.071	0.279	1.00	28.66	B	C
ATOM	1258	O	VAL	B	7	-35.668	23.040	0.360	1.00	29.62	B	O
ATOM	1259	N	GLU	B	8	-35.052	21.064	1.127	1.00	31.18	B	N
ATOM	1260	CA	GLU	B	8	-36.115	21.121	2.121	1.00	32.56	B	C
ATOM	1261	CB	GLU	B	8	-36.387	19.731	2.717	1.00	35.70	B	C
ATOM	1262	CG	GLU	B	8	-37.934	19.423	2.703	1.00	45.52	B	C
ATOM	1263	CD	GLU	B	8	-38.351	17.990	2.202	1.00	50.57	B	C
ATOM	1264	OE1	GLU	B	8	-38.731	17.112	3.045	1.00	49.89	B	O
ATOM	1265	OE2	GLU	B	8	-38.310	17.752	0.958	1.00	52.50	B	O
ATOM	1266	C	GLU	B	8	-36.007	22.188	3.221	1.00	31.54	B	C
ATOM	1267	O	GLU	B	8	-37.037	22.722	3.646	1.00	30.11	B	O
ATOM	1268	N	SER	B	9	-34.800	22.540	3.665	1.00	28.70	B	N
ATOM	1269	CA	SER	B	9	-34.719	23.549	4.712	1.00	27.51	B	C
ATOM	1270	CB	SER	B	9	-33.322	23.621	5.330	1.00	27.73	B	C
ATOM	1271	OG	SER	B	9	-32.373	24.122	4.430	1.00	31.14	B	O
ATOM	1272	C	SER	B	9	-35.121	24.920	4.210	1.00	27.30	B	C
ATOM	1273	O	SER	B	9	-35.400	25.831	5.000	1.00	28.23	B	O
ATOM	1274	N	PHE	B	10	-35.168	25.078	2.895	1.00	25.95	B	N

Table 7

ATOM	1275	CA	PHE	B	10	-35.568	26.352	2.346	1.00	25.09	B C
ATOM	1276	CB	PHE	B	10	-35.164	26.450	0.862	1.00	23.32	B C
ATOM	1277	CG	PHE	B	10	-33.684	26.552	0.632	1.00	21.97	B C
ATOM	1278	CD1	PHE	B	10	-32.797	26.662	1.695	1.00	18.67	B C
ATOM	1279	CD2	PHE	B	10	-33.182	26.627	-0.665	1.00	24.06	B C
ATOM	1280	CE1	PHE	B	10	-31.456	26.851	1.477	1.00	16.17	B C
ATOM	1281	CE2	PHE	B	10	-31.824	26.819	-0.890	1.00	20.80	B C
ATOM	1282	CZ	PHE	B	10	-30.965	26.933	0.198	1.00	20.03	B C
ATOM	1283	C	PHE	B	10	-37.077	26.511	2.524	1.00	24.17	B C
ATOM	1284	O	PHE	B	10	-37.622	27.587	2.317	1.00	25.08	B O
ATOM	1285	N	ASN	B	11	-37.742	25.425	2.900	1.00	24.53	B N
ATOM	1286	CA	ASN	B	11	-39.186	25.411	3.139	1.00	25.28	B C
ATOM	1287	CB	ASN	B	11	-39.787	24.116	2.594	1.00	23.57	B C
ATOM	1288	CG	ASN	B	11	-39.605	23.978	1.088	1.00	27.07	B C
ATOM	1289	OD1	ASN	B	11	-39.228	22.893	0.587	1.00	27.50	B O
ATOM	1290	ND2	ASN	B	11	-39.872	25.068	0.347	1.00	22.22	B N
ATOM	1291	C	ASN	B	11	-39.552	25.596	4.635	1.00	25.68	B C
ATOM	1292	O	ASN	B	11	-40.731	25.700	5.002	1.00	26.57	B O
ATOM	1293	N	LEU	B	12	-38.535	25.642	5.487	1.00	24.92	B N
ATOM	1294	CA	LEU	B	12	-38.718	25.868	6.914	1.00	25.02	B C
ATOM	1295	CB	LEU	B	12	-37.593	25.204	7.704	1.00	25.30	B C
ATOM	1296	CG	LEU	B	12	-37.325	25.544	9.177	1.00	25.13	B C
ATOM	1297	CD1	LEU	B	12	-38.457	25.031	10.110	1.00	25.23	B C
ATOM	1298	CD2	LEU	B	12	-36.010	24.886	9.563	1.00	22.25	B C
ATOM	1299	C	LEU	B	12	-38.668	27.373	7.127	1.00	25.97	B C
ATOM	1300	O	LEU	B	12	-37.766	28.054	6.652	1.00	25.34	B O
ATOM	1301	N	ASP	B	13	-39.655	27.891	7.832	1.00	26.74	B N
ATOM	1302	CA	ASP	B	13	-39.727	29.319	8.121	1.00	27.12	B C
ATOM	1303	CB	ASP	B	13	-41.170	29.685	8.462	1.00	27.72	B C
ATOM	1304	CG	ASP	B	13	-41.354	31.153	8.681	1.00	31.60	B C
ATOM	1305	OD1	ASP	B	13	-40.379	31.814	9.138	1.00	31.42	B O
ATOM	1306	OD2	ASP	B	13	-42.481	31.641	8.403	1.00	34.13	B O
ATOM	1307	C	ASP	B	13	-38.829	29.512	9.345	1.00	27.35	B C
ATOM	1308	O	ASP	B	13	-39.266	29.291	10.498	1.00	27.83	B O
ATOM	1309	N	HIS	B	14	-37.580	29.898	9.110	1.00	24.31	B N
ATOM	1310	CA	HIS	B	14	-36.645	30.067	10.215	1.00	23.74	B C
ATOM	1311	CB	HIS	B	14	-35.246	30.362	9.666	1.00	24.67	B C
ATOM	1312	CG	HIS	B	14	-34.682	29.241	8.846	1.00	25.68	B C
ATOM	1313	CD2	HIS	B	14	-33.459	28.657	8.851	1.00	24.96	B C
ATOM	1314	ND1	HIS	B	14	-35.431	28.557	7.911	1.00	24.11	B N
ATOM	1315	CE1	HIS	B	14	-34.696	27.599	7.379	1.00	25.46	B C
ATOM	1316	NE2	HIS	B	14	-33.495	27.637	7.932	1.00	25.31	B N
ATOM	1317	C	HIS	B	14	-37.024	31.088	11.291	1.00	22.21	B C
ATOM	1318	O	HIS	B	14	-36.524	31.002	12.390	1.00	19.49	B O
ATOM	1319	N	THR	B	15	-37.921	32.024	10.990	1.00	23.48	B N
ATOM	1320	CA	THR	B	15	-38.305	33.030	11.978	1.00	25.25	B C
ATOM	1321	CB	THR	B	15	-39.011	34.268	11.323	1.00	25.55	B C
ATOM	1322	OG1	THR	B	15	-40.282	33.883	10.786	1.00	26.93	B O
ATOM	1323	CG2	THR	B	15	-38.153	34.889	10.197	1.00	23.87	B C
ATOM	1324	C	THR	B	15	-39.247	32.469	13.075	1.00	28.33	B C
ATOM	1325	O	THR	B	15	-39.525	33.159	14.084	1.00	27.95	B O
ATOM	1326	N	LYS	B	16	-39.702	31.222	12.898	1.00	26.86	B N
ATOM	1327	CA	LYS	B	16	-40.638	30.629	13.847	1.00	27.97	B C
ATOM	1328	CB	LYS	B	16	-41.906	30.229	13.104	1.00	27.52	B C
ATOM	1329	CG	LYS	B	16	-42.428	31.390	12.362	1.00	31.00	B C
ATOM	1330	CD	LYS	B	16	-43.756	31.203	11.700	1.00	33.63	B C
ATOM	1331	CE	LYS	B	16	-44.166	32.572	11.158	1.00	32.92	B C

Table 7

ATOM	1332	NZ	LYS	B	16	-45.107	32.508	10.024	1.00	37.39	B N
ATOM	1333	C	LYS	B	16	-40.183	29.470	14.711	1.00	27.95	B C
ATOM	1334	O	LYS	B	16	-40.869	29.092	15.646	1.00	27.22	B O
ATOM	1335	N	VAL	B	17	-39.048	28.884	14.389	1.00	28.88	B N
ATOM	1336	CA	VAL	B	17	-38.571	27.780	15.171	1.00	29.32	B C
ATOM	1337	CB	VAL	B	17	-37.454	27.002	14.442	1.00	28.53	B C
ATOM	1338	CG1	VAL	B	17	-38.034	26.240	13.274	1.00	28.27	B C
ATOM	1339	CG2	VAL	B	17	-36.378	27.945	14.013	1.00	25.23	B C
ATOM	1340	C	VAL	B	17	-38.023	28.371	16.453	1.00	29.93	B C
ATOM	1341	O	VAL	B	17	-37.684	29.553	16.483	1.00	29.61	B O
ATOM	1342	N	LYS	B	18	-37.971	27.546	17.501	1.00	29.24	B N
ATOM	1343	CA	LYS	B	18	-37.453	27.945	18.812	1.00	29.14	B C
ATOM	1344	CB	LYS	B	18	-38.528	27.748	19.894	1.00	32.09	B C
ATOM	1345	CG	LYS	B	18	-39.860	28.413	19.550	1.00	34.69	B C
ATOM	1346	CD	LYS	B	18	-40.941	28.103	20.568	1.00	37.52	B C
ATOM	1347	CE	LYS	B	18	-42.299	28.579	20.060	1.00	39.35	B C
ATOM	1348	NZ	LYS	B	18	-43.433	27.915	20.780	1.00	42.76	B N
ATOM	1349	C	LYS	B	18	-36.259	27.060	19.135	1.00	27.29	B C
ATOM	1350	O	LYS	B	18	-36.429	25.931	19.556	1.00	27.93	B O
ATOM	1351	N	ALA	B	19	-35.054	27.553	18.912	1.00	25.77	B N
ATOM	1352	CA	ALA	B	19	-33.868	26.759	19.204	1.00	26.56	B C
ATOM	1353	CB	ALA	B	19	-32.643	27.409	18.538	1.00	24.80	B C
ATOM	1354	C	ALA	B	19	-33.654	26.662	20.729	1.00	25.81	B C
ATOM	1355	O	ALA	B	19	-34.051	27.550	21.466	1.00	26.57	B O
ATOM	1356	N	PRO	B	20	-32.985	25.601	21.209	1.00	26.55	B N
ATOM	1357	CD	PRO	B	20	-32.720	25.421	22.653	1.00	26.52	B C
ATOM	1358	CA	PRO	B	20	-32.391	24.493	20.461	1.00	24.31	B C
ATOM	1359	CB	PRO	B	20	-31.304	24.025	21.400	1.00	25.78	B C
ATOM	1360	CG	PRO	B	20	-32.015	24.062	22.700	1.00	25.78	B C
ATOM	1361	C	PRO	B	20	-33.451	23.428	20.238	1.00	23.54	B C
ATOM	1362	O	PRO	B	20	-34.387	23.304	21.019	1.00	21.78	B O
ATOM	1363	N	TYR	B	21	-33.289	22.643	19.178	1.00	23.76	B N
ATOM	1364	CA	TYR	B	21	-34.266	21.630	18.865	1.00	20.95	B C
ATOM	1365	CB	TYR	B	21	-35.493	22.332	18.270	1.00	22.28	B C
ATOM	1366	CG	TYR	B	21	-35.281	22.927	16.884	1.00	24.83	B C
ATOM	1367	CD1	TYR	B	21	-35.180	22.095	15.763	1.00	25.56	B C
ATOM	1368	CE1	TYR	B	21	-34.993	22.588	14.502	1.00	23.78	B C
ATOM	1369	CD2	TYR	B	21	-35.184	24.297	16.685	1.00	24.12	B C
ATOM	1370	CE2	TYR	B	21	-34.996	24.820	15.395	1.00	24.54	B C
ATOM	1371	CZ	TYR	B	21	-34.902	23.943	14.307	1.00	25.75	B C
ATOM	1372	OH	TYR	B	21	-34.703	24.386	13.015	1.00	23.42	B O
ATOM	1373	C	TYR	B	21	-33.741	20.540	17.914	1.00	21.57	B C
ATOM	1374	O	TYR	B	21	-32.677	20.663	17.323	1.00	20.80	B O
ATOM	1375	N	VAL	B	22	-34.500	19.454	17.800	1.00	21.29	B N
ATOM	1376	CA	VAL	B	22	-34.172	18.345	16.937	1.00	20.54	B C
ATOM	1377	CB	VAL	B	22	-33.914	17.048	17.747	1.00	21.30	B C
ATOM	1378	CG1	VAL	B	22	-33.511	15.860	16.806	1.00	18.30	B C
ATOM	1379	CG2	VAL	B	22	-32.805	17.286	18.724	1.00	22.10	B C
ATOM	1380	C	VAL	B	22	-35.396	18.204	16.051	1.00	18.95	B C
ATOM	1381	O	VAL	B	22	-36.463	17.887	16.511	1.00	19.58	B O
ATOM	1382	N	ARG	B	23	-35.249	18.458	14.767	1.00	19.67	B N
ATOM	1383	CA	ARG	B	23	-36.405	18.385	13.887	1.00	20.67	B C
ATOM	1384	CB	ARG	B	23	-36.612	19.755	13.256	1.00	21.60	B C
ATOM	1385	CG	ARG	B	23	-37.786	19.905	12.310	1.00	20.82	B C
ATOM	1386	CD	ARG	B	23	-37.712	21.305	11.662	1.00	23.21	B C
ATOM	1387	NE	ARG	B	23	-36.556	21.478	10.774	1.00	20.75	B N
ATOM	1388	CZ	ARG	B	23	-36.564	21.230	9.463	1.00	21.26	B C

Table 7

ATOM	1389	NH1	ARG	B	23	-37.674	20.803	8.859	1.00	20.83	B N
ATOM	1390	NH2	ARG	B	23	-35.453	21.368	8.755	1.00	21.15	B N
ATOM	1391	C	ARG	B	23	-36.285	17.323	12.797	1.00	21.29	B C
ATOM	1392	O	ARG	B	23	-35.235	17.145	12.199	1.00	20.67	B O
ATOM	1393	N	ILE	B	24	-37.353	16.582	12.572	1.00	23.06	B N
ATOM	1394	CA	ILE	B	24	-37.345	15.605	11.486	1.00	26.89	B C
ATOM	1395	CB	ILE	B	24	-38.609	14.738	11.534	1.00	26.49	B C
ATOM	1396	CG2	ILE	B	24	-38.682	13.880	10.296	1.00	27.93	B C
ATOM	1397	CG1	ILE	B	24	-38.622	13.916	12.828	1.00	29.37	B C
ATOM	1398	CD1	ILE	B	24	-39.787	12.926	12.939	1.00	27.31	B C
ATOM	1399	C	ILE	B	24	-37.364	16.461	10.186	1.00	27.28	B C
ATOM	1400	O	ILE	B	24	-38.427	16.926	9.774	1.00	25.74	B O
ATOM	1401	N	ALA	B	25	-36.210	16.668	9.546	1.00	27.74	B N
ATOM	1402	CA	ALA	B	25	-36.182	17.519	8.339	1.00	29.07	B C
ATOM	1403	CB	ALA	B	25	-34.813	18.162	8.156	1.00	26.85	B C
ATOM	1404	C	ALA	B	25	-36.560	16.799	7.062	1.00	32.19	B C
ATOM	1405	O	ALA	B	25	-37.090	17.411	6.147	1.00	31.68	B O
ATOM	1406	N	ASP	B	26	-36.291	15.499	6.996	1.00	36.02	B N
ATOM	1407	CA	ASP	B	26	-36.596	14.755	5.793	1.00	38.82	B C
ATOM	1408	CB	ASP	B	26	-35.605	15.126	4.706	1.00	39.46	B C
ATOM	1409	CG	ASP	B	26	-36.170	14.904	3.327	1.00	43.81	B C
ATOM	1410	OD1	ASP	B	26	-37.428	14.939	3.202	1.00	42.39	B O
ATOM	1411	OD2	ASP	B	26	-35.363	14.724	2.377	1.00	45.18	B O
ATOM	1412	C	ASP	B	26	-36.620	13.247	5.961	1.00	40.56	B C
ATOM	1413	O	ASP	B	26	-35.833	12.670	6.711	1.00	39.79	B O
ATOM	1414	N	ARG	B	27	-37.549	12.617	5.257	1.00	42.91	B N
ATOM	1415	CA	ARG	B	27	-37.713	11.178	5.319	1.00	45.13	B C
ATOM	1416	CB	ARG	B	27	-38.808	10.778	6.293	1.00	44.26	B C
ATOM	1417	CG	ARG	B	27	-38.642	11.260	7.678	1.00	45.76	B C
ATOM	1418	CD	ARG	B	27	-39.724	10.650	8.529	1.00	47.14	B C
ATOM	1419	NE	ARG	B	27	-40.286	9.465	7.892	1.00	45.48	B N
ATOM	1420	CZ	ARG	B	27	-40.806	8.449	8.566	1.00	46.31	B C
ATOM	1421	NH1	ARG	B	27	-40.813	8.484	9.896	1.00	45.42	B N
ATOM	1422	NH2	ARG	B	27	-41.346	7.420	7.920	1.00	45.01	B N
ATOM	1423	C	ARG	B	27	-38.146	10.681	3.971	1.00	47.53	B C
ATOM	1424	O	ARG	B	27	-39.284	10.915	3.551	1.00	48.80	B O
ATOM	1425	N	LYS	B	28	-37.248	10.008	3.281	1.00	48.79	B N
ATOM	1426	CA	LYS	B	28	-37.616	9.430	2.013	1.00	50.93	B C
ATOM	1427	CB	LYS	B	28	-36.963	10.181	0.846	1.00	53.03	B C
ATOM	1428	CG	LYS	B	28	-35.450	10.203	0.852	1.00	54.94	B C
ATOM	1429	CD	LYS	B	28	-34.903	11.251	1.810	1.00	56.87	B C
ATOM	1430	CE	LYS	B	28	-33.446	11.546	1.478	1.00	57.13	B C
ATOM	1431	NZ	LYS	B	28	-33.309	11.869	0.025	1.00	57.23	B N
ATOM	1432	C	LYS	B	28	-37.165	7.975	2.063	1.00	50.72	B C
ATOM	1433	O	LYS	B	28	-36.225	7.622	2.795	1.00	49.63	B O
ATOM	1434	N	LYS	B	29	-37.881	7.127	1.332	1.00	50.53	B N
ATOM	1435	CA	LYS	B	29	-37.541	5.714	1.261	1.00	49.81	B C
ATOM	1436	CB	LYS	B	29	-38.787	4.827	1.377	1.00	51.06	B C
ATOM	1437	CG	LYS	B	29	-39.465	4.838	2.736	1.00	52.68	B C
ATOM	1438	CD	LYS	B	29	-40.448	3.668	2.914	1.00	54.12	B C
ATOM	1439	CE	LYS	B	29	-41.140	3.718	4.301	1.00	55.69	B C
ATOM	1440	NZ	LYS	B	29	-41.954	2.493	4.661	1.00	54.44	B N
ATOM	1441	C	LYS	B	29	-36.953	5.543	-0.115	1.00	47.83	B C
ATOM	1442	O	LYS	B	29	-37.350	6.242	-1.035	1.00	48.53	B O
ATOM	1443	N	GLY	B	30	-35.996	4.640	-0.254	1.00	46.78	B N
ATOM	1444	CA	GLY	B	30	-35.416	4.396	-1.561	1.00	46.20	B C
ATOM	1445	C	GLY	B	30	-36.367	3.476	-2.315	1.00	45.01	B C

Table 7

ATOM	1446	O	GLY	B	30	-37.345	3.004	-1.740	1.00	44.62	B	O
ATOM	1447	N	VAL	B	31	-36.098	3.220	-3.590	1.00	43.40	B	N
ATOM	1448	CA	VAL	B	31	-36.965	2.346	-4.379	1.00	41.17	B	C
ATOM	1449	CB	VAL	B	31	-36.424	2.157	-5.830	1.00	40.92	B	C
ATOM	1450	CG1	VAL	B	31	-35.217	1.236	-5.844	1.00	37.35	B	C
ATOM	1451	CG2	VAL	B	31	-37.547	1.629	-6.735	1.00	42.29	B	C
ATOM	1452	C	VAL	B	31	-37.087	0.994	-3.684	1.00	40.20	B	C
ATOM	1453	O	VAL	B	31	-38.140	0.369	-3.712	1.00	39.68	B	O
ATOM	1454	N	ASN	B	32	-36.018	0.564	-3.025	1.00	40.26	B	N
ATOM	1455	CA	ASN	B	32	-36.018	-0.712	-2.301	1.00	41.13	B	C
ATOM	1456	CB	ASN	B	32	-34.599	-1.226	-2.197	1.00	42.49	B	C
ATOM	1457	CG	ASN	B	32	-34.033	-1.601	-3.539	1.00	46.26	B	C
ATOM	1458	OD1	ASN	B	32	-34.298	-2.695	-4.048	1.00	47.85	B	O
ATOM	1459	ND2	ASN	B	32	-33.271	-0.688	-4.140	1.00	45.66	B	N
ATOM	1460	C	ASN	B	32	-36.653	-0.699	-0.894	1.00	40.93	B	C
ATOM	1461	O	ASN	B	32	-36.639	-1.710	-0.193	1.00	41.30	B	O
ATOM	1462	N	GLY	B	33	-37.201	0.431	-0.470	1.00	39.91	B	N
ATOM	1463	CA	GLY	B	33	-37.820	0.466	0.841	1.00	39.22	B	C
ATOM	1464	C	GLY	B	33	-36.945	0.841	2.031	1.00	38.12	B	C
ATOM	1465	O	GLY	B	33	-37.473	0.984	3.136	1.00	37.56	B	O
ATOM	1466	N	ASP	B	34	-35.631	0.974	1.846	1.00	35.84	B	N
ATOM	1467	CA	ASP	B	34	-34.786	1.366	2.960	1.00	34.71	B	C
ATOM	1468	CB	ASP	B	34	-33.304	1.205	2.609	1.00	37.13	B	C
ATOM	1469	CG	ASP	B	34	-32.825	-0.266	2.660	1.00	41.25	B	C
ATOM	1470	OD1	ASP	B	34	-33.376	-1.084	3.445	1.00	44.04	B	O
ATOM	1471	OD2	ASP	B	34	-31.862	-0.606	1.933	1.00	42.02	B	O
ATOM	1472	C	ASP	B	34	-35.113	2.834	3.327	1.00	34.38	B	C
ATOM	1473	O	ASP	B	34	-35.484	3.643	2.474	1.00	30.61	B	O
ATOM	1474	N	LEU	B	35	-34.987	3.168	4.611	1.00	34.55	B	N
ATOM	1475	CA	LEU	B	35	-35.299	4.520	5.102	1.00	33.21	B	C
ATOM	1476	CB	LEU	B	35	-36.050	4.455	6.429	1.00	37.55	B	C
ATOM	1477	CG	LEU	B	35	-37.529	4.137	6.534	1.00	41.10	B	C
ATOM	1478	CD1	LEU	B	35	-38.293	5.419	6.849	1.00	41.88	B	C
ATOM	1479	CD2	LEU	B	35	-37.994	3.471	5.236	1.00	43.91	B	C
ATOM	1480	C	LEU	B	35	-34.114	5.402	5.373	1.00	30.03	B	C
ATOM	1481	O	LEU	B	35	-33.199	5.008	6.061	1.00	31.63	B	O
ATOM	1482	N	ILE	B	36	-34.128	6.607	4.843	1.00	28.08	B	N
ATOM	1483	CA	ILE	B	36	-33.066	7.549	5.161	1.00	25.65	B	C
ATOM	1484	CB	ILE	B	36	-32.347	8.050	3.925	1.00	26.86	B	C
ATOM	1485	CG2	ILE	B	36	-31.141	8.906	4.344	1.00	27.47	B	C
ATOM	1486	CG1	ILE	B	36	-31.933	6.871	3.061	1.00	26.45	B	C
ATOM	1487	CD1	ILE	B	36	-31.079	7.271	1.833	1.00	31.59	B	C
ATOM	1488	C	ILE	B	36	-33.840	8.717	5.792	1.00	25.31	B	C
ATOM	1489	O	ILE	B	36	-34.784	9.235	5.205	1.00	25.41	B	O
ATOM	1490	N	VAL	B	37	-33.473	9.107	6.999	1.00	23.97	B	N
ATOM	1491	CA	VAL	B	37	-34.143	10.204	7.674	1.00	21.67	B	C
ATOM	1492	CB	VAL	B	37	-34.770	9.733	9.050	1.00	24.08	B	C
ATOM	1493	CG1	VAL	B	37	-35.409	10.918	9.779	1.00	22.12	B	C
ATOM	1494	CG2	VAL	B	37	-35.807	8.625	8.836	1.00	22.14	B	C
ATOM	1495	C	VAL	B	37	-33.031	11.209	7.980	1.00	21.32	B	C
ATOM	1496	O	VAL	B	37	-31.939	10.798	8.340	1.00	21.56	B	O
ATOM	1497	N	LYS	B	38	-33.301	12.504	7.824	1.00	20.15	B	N
ATOM	1498	CA	LYS	B	38	-32.346	13.552	8.152	1.00	21.06	B	C
ATOM	1499	CB	LYS	B	38	-32.084	14.508	6.983	1.00	22.23	B	C
ATOM	1500	CG	LYS	B	38	-31.344	13.972	5.795	1.00	27.51	B	C
ATOM	1501	CD	LYS	B	38	-31.740	14.727	4.495	1.00	30.16	B	C
ATOM	1502	CE	LYS	B	38	-31.223	16.205	4.416	1.00	33.29	B	C

Table 7

ATOM	1503	NZ	LYS	B	38	-32.158	17.154	3.615	1.00	33.08	B N
ATOM	1504	C	LYS	B	38	-32.990	14.372	9.275	1.00	21.78	B C
ATOM	1505	O	LYS	B	38	-34.201	14.664	9.215	1.00	23.16	B O
ATOM	1506	N	TYR	B	39	-32.174	14.755	10.265	1.00	18.45	B N
ATOM	1507	CA	TYR	B	39	-32.592	15.577	11.391	1.00	16.93	B C
ATOM	1508	CB	TYR	B	39	-32.404	14.856	12.717	1.00	17.93	B C
ATOM	1509	CG	TYR	B	39	-33.230	13.601	12.892	1.00	21.61	B C
ATOM	1510	CD1	TYR	B	39	-34.500	13.646	13.491	1.00	18.27	B C
ATOM	1511	CE1	TYR	B	39	-35.231	12.495	13.664	1.00	19.36	B C
ATOM	1512	CD2	TYR	B	39	-32.733	12.355	12.481	1.00	19.83	B C
ATOM	1513	CE2	TYR	B	39	-33.475	11.202	12.662	1.00	19.29	B C
ATOM	1514	CZ	TYR	B	39	-34.717	11.281	13.246	1.00	19.46	B C
ATOM	1515	OH	TYR	B	39	-35.451	10.133	13.403	1.00	24.76	B O
ATOM	1516	C	TYR	B	39	-31.742	16.850	11.470	1.00	17.25	B C
ATOM	1517	O	TYR	B	39	-30.476	16.804	11.453	1.00	15.47	B O
ATOM	1518	N	ASP	B	40	-32.446	17.968	11.608	1.00	14.55	B N
ATOM	1519	CA	ASP	B	40	-31.849	19.278	11.732	1.00	14.51	B C
ATOM	1520	CB	ASP	B	40	-32.809	20.275	11.043	1.00	12.43	B C
ATOM	1521	CG	ASP	B	40	-32.853	21.646	11.671	1.00	15.83	B C
ATOM	1522	OD1	ASP	B	40	-31.962	22.054	12.462	1.00	16.76	B O
ATOM	1523	OD2	ASP	B	40	-33.823	22.349	11.333	1.00	15.22	B O
ATOM	1524	C	ASP	B	40	-31.627	19.509	13.254	1.00	16.34	B C
ATOM	1525	O	ASP	B	40	-32.560	19.794	14.008	1.00	14.81	B O
ATOM	1526	N	VAL	B	41	-30.399	19.313	13.731	1.00	16.94	B N
ATOM	1527	CA	VAL	B	41	-30.219	19.556	15.133	1.00	21.01	B C
ATOM	1528	CB	VAL	B	41	-29.546	18.342	15.873	1.00	23.40	B C
ATOM	1529	CG1	VAL	B	41	-29.587	17.111	14.957	1.00	23.22	B C
ATOM	1530	CG2	VAL	B	41	-28.170	18.672	16.407	1.00	24.38	B C
ATOM	1531	C	VAL	B	41	-29.567	20.912	15.288	1.00	21.58	B C
ATOM	1532	O	VAL	B	41	-28.365	21.122	15.078	1.00	22.29	B O
ATOM	1533	N	ARG	B	42	-30.469	21.844	15.575	1.00	22.23	B N
ATOM	1534	CA	ARG	B	42	-30.236	23.269	15.745	1.00	22.08	B C
ATOM	1535	CB	ARG	B	42	-31.562	23.984	15.637	1.00	22.19	B C
ATOM	1536	CG	ARG	B	42	-31.450	25.371	15.064	1.00	25.39	B C
ATOM	1537	CD	ARG	B	42	-31.855	25.187	13.660	1.00	27.61	B C
ATOM	1538	NE	ARG	B	42	-31.199	26.067	12.732	1.00	27.89	B N
ATOM	1539	CZ	ARG	B	42	-31.300	25.914	11.424	1.00	25.26	B C
ATOM	1540	NH1	ARG	B	42	-32.032	24.920	10.943	1.00	25.07	B N
ATOM	1541	NH2	ARG	B	42	-30.653	26.734	10.611	1.00	25.50	B N
ATOM	1542	C	ARG	B	42	-29.671	23.675	17.094	1.00	22.72	B C
ATOM	1543	O	ARG	B	42	-30.347	23.480	18.097	1.00	24.03	B O
ATOM	1544	N	PHE	B	43	-28.491	24.278	17.134	1.00	22.77	B N
ATOM	1545	CA	PHE	B	43	-27.972	24.707	18.425	1.00	24.29	B C
ATOM	1546	CB	PHE	B	43	-26.462	24.544	18.524	1.00	23.55	B C
ATOM	1547	CG	PHE	B	43	-26.028	23.147	18.795	1.00	25.34	B C
ATOM	1548	CD1	PHE	B	43	-24.976	22.889	19.665	1.00	26.91	B C
ATOM	1549	CD2	PHE	B	43	-26.652	22.079	18.168	1.00	29.63	B C
ATOM	1550	CE1	PHE	B	43	-24.555	21.604	19.904	1.00	27.15	B C
ATOM	1551	CE2	PHE	B	43	-26.233	20.757	18.407	1.00	28.85	B C
ATOM	1552	CZ	PHE	B	43	-25.192	20.531	19.270	1.00	27.34	B C
ATOM	1553	C	PHE	B	43	-28.332	26.144	18.712	1.00	25.52	B C
ATOM	1554	O	PHE	B	43	-28.803	26.446	19.797	1.00	24.70	B O
ATOM	1555	N	LYS	B	44	-28.157	27.021	17.725	1.00	27.50	B N
ATOM	1556	CA	LYS	B	44	-28.452	28.452	17.888	1.00	27.54	B C
ATOM	1557	CB	LYS	B	44	-27.223	29.256	17.468	1.00	26.65	B C
ATOM	1558	CG	LYS	B	44	-25.944	28.851	18.145	1.00	27.81	B C
ATOM	1559	CD	LYS	B	44	-26.063	28.932	19.671	1.00	26.85	B C

Table 7

ATOM	1560	CE	LYS	B	44	-24.681	29.115	20.323	1.00	29.85	B C
ATOM	1561	NZ	LYS	B	44	-24.670	28.745	21.799	1.00	30.74	B N
ATOM	1562	C	LYS	B	44	-29.675	28.973	17.109	1.00	28.54	B C
ATOM	1563	O	LYS	B	44	-29.952	28.516	15.993	1.00	31.41	B O
ATOM	1564	N	GLN	B	45	-30.360	29.968	17.677	1.00	27.87	B N
ATOM	1565	CA	GLN	B	45	-31.550	30.587	17.083	1.00	26.22	B C
ATOM	1566	CB	GLN	B	45	-32.178	31.560	18.106	1.00	26.03	B C
ATOM	1567	CG	GLN	B	45	-33.590	32.075	17.811	1.00	25.17	B C
ATOM	1568	CD	GLN	B	45	-34.622	30.959	17.596	1.00	28.41	B C
ATOM	1569	OE1	GLN	B	45	-34.657	29.963	18.343	1.00	24.17	B O
ATOM	1570	NE2	GLN	B	45	-35.483	31.129	16.568	1.00	26.46	B N
ATOM	1571	C	GLN	B	45	-31.134	31.315	15.804	1.00	26.09	B C
ATOM	1572	O	GLN	B	45	-30.208	32.112	15.822	1.00	27.43	B O
ATOM	1573	N	PRO	B	46	-31.793	31.025	14.671	1.00	24.94	B N
ATOM	1574	CD	PRO	B	46	-32.848	30.005	14.575	1.00	26.88	B C
ATOM	1575	CA	PRO	B	46	-31.530	31.612	13.355	1.00	25.60	B C
ATOM	1576	CB	PRO	B	46	-32.680	31.083	12.507	1.00	24.63	B C
ATOM	1577	CG	PRO	B	46	-32.937	29.761	13.091	1.00	25.73	B C
ATOM	1578	C	PRO	B	46	-31.454	33.124	13.289	1.00	27.50	B C
ATOM	1579	O	PRO	B	46	-32.366	33.831	13.724	1.00	27.96	B O
ATOM	1580	N	ASN	B	47	-30.358	33.623	12.733	1.00	29.58	B N
ATOM	1581	CA	ASN	B	47	-30.184	35.062	12.570	1.00	30.43	B C
ATOM	1582	CB	ASN	B	47	-31.295	35.600	11.667	1.00	30.23	B C
ATOM	1583	CG	ASN	B	47	-31.241	35.008	10.277	1.00	30.01	B C
ATOM	1584	OD1	ASN	B	47	-30.241	35.151	9.568	1.00	27.29	B O
ATOM	1585	ND2	ASN	B	47	-32.316	34.335	9.878	1.00	30.77	B N
ATOM	1586	C	ASN	B	47	-30.185	35.836	13.875	1.00	31.72	B C
ATOM	1587	O	ASN	B	47	-30.496	37.008	13.895	1.00	31.53	B O
ATOM	1588	N	ARG	B	48	-29.868	35.174	14.975	1.00	34.21	B N
ATOM	1589	CA	ARG	B	48	-29.810	35.852	16.250	1.00	35.75	B C
ATOM	1590	CB	ARG	B	48	-31.088	35.590	17.052	1.00	38.47	B C
ATOM	1591	CG	ARG	B	48	-32.277	36.291	16.412	1.00	44.34	B C
ATOM	1592	CD	ARG	B	48	-33.598	36.022	17.106	1.00	48.81	B C
ATOM	1593	NE	ARG	B	48	-34.650	36.937	16.641	1.00	52.91	B N
ATOM	1594	CZ	ARG	B	48	-35.530	37.547	17.444	1.00	55.14	B C
ATOM	1595	NH1	ARG	B	48	-35.487	37.338	18.761	1.00	54.07	B N
ATOM	1596	NH2	ARG	B	48	-36.450	38.374	16.933	1.00	55.53	B N
ATOM	1597	C	ARG	B	48	-28.591	35.391	16.998	1.00	34.72	B C
ATOM	1598	O	ARG	B	48	-28.177	36.026	17.951	1.00	36.85	B O
ATOM	1599	N	ASP	B	49	-27.999	34.298	16.539	1.00	33.21	B N
ATOM	1600	CA	ASP	B	49	-26.833	33.727	17.186	1.00	33.34	B C
ATOM	1601	CB	ASP	B	49	-27.242	33.115	18.521	1.00	35.09	B C
ATOM	1602	CG	ASP	B	49	-26.135	33.176	19.563	1.00	38.30	B C
ATOM	1603	OD1	ASP	B	49	-24.955	33.308	19.179	1.00	39.19	B O
ATOM	1604	OD2	ASP	B	49	-26.441	33.073	20.781	1.00	40.27	B O
ATOM	1605	C	ASP	B	49	-26.228	32.642	16.294	1.00	33.07	B C
ATOM	1606	O	ASP	B	49	-26.872	32.156	15.358	1.00	34.27	B O
ATOM	1607	N	HIS	B	50	-24.999	32.249	16.594	1.00	32.46	B N
ATOM	1608	CA	HIS	B	50	-24.310	31.241	15.811	1.00	33.92	B C
ATOM	1609	CB	HIS	B	50	-23.910	31.836	14.457	1.00	35.49	B C
ATOM	1610	CG	HIS	B	50	-23.011	33.028	14.548	1.00	35.60	B C
ATOM	1611	CD2	HIS	B	50	-23.289	34.349	14.587	1.00	35.67	B C
ATOM	1612	ND1	HIS	B	50	-21.633	32.927	14.550	1.00	37.72	B N
ATOM	1613	CE1	HIS	B	50	-21.104	34.133	14.577	1.00	36.23	B C
ATOM	1614	NE2	HIS	B	50	-22.087	35.015	14.600	1.00	38.45	B N
ATOM	1615	C	HIS	B	50	-23.095	30.690	16.540	1.00	34.62	B C
ATOM	1616	O	HIS	B	50	-22.759	31.165	17.619	1.00	35.91	B O

Table 7

ATOM	1617	N	MSE	B	51	-22.445	29.687	15.951	1.00	33.65	B N
ATOM	1618	CA	MSE	B	51	-21.271	29.039	16.544	1.00	32.09	B C
ATOM	1619	CB	MSE	B	51	-21.357	27.508	16.402	1.00	32.20	B C
ATOM	1620	CG	MSE	B	51	-22.594	26.844	16.994	1.00	34.38	B C
ATOM	1621	SE	MSE	B	51	-22.678	24.912	16.607	1.00	39.19	B S
ATOM	1622	CE	MSE	B	51	-23.589	24.961	14.877	1.00	35.48	B C
ATOM	1623	C	MSE	B	51	-20.027	29.493	15.809	1.00	31.87	B C
ATOM	1624	O	MSE	B	51	-20.028	29.551	14.570	1.00	32.63	B O
ATOM	1625	N	ASP	B	52	-18.963	29.794	16.544	1.00	30.10	B N
ATOM	1626	CA	ASP	B	52	-17.742	30.208	15.883	1.00	30.98	B C
ATOM	1627	CB	ASP	B	52	-16.772	30.897	16.864	1.00	33.63	B C
ATOM	1628	CG	ASP	B	52	-16.674	30.189	18.214	1.00	36.38	B C
ATOM	1629	OD1	ASP	B	52	-15.869	29.234	18.355	1.00	34.20	B O
ATOM	1630	OD2	ASP	B	52	-17.418	30.601	19.142	1.00	40.24	B O
ATOM	1631	C	ASP	B	52	-17.141	28.953	15.266	1.00	30.36	B C
ATOM	1632	O	ASP	B	52	-17.287	27.853	15.803	1.00	29.17	B O
ATOM	1633	N	MSE	B	53	-16.477	29.118	14.129	1.00	29.87	B N
ATOM	1634	CA	MSE	B	53	-15.908	27.979	13.424	1.00	30.89	B C
ATOM	1635	CB	MSE	B	53	-15.217	28.435	12.152	1.00	32.37	B C
ATOM	1636	CG	MSE	B	53	-16.230	28.903	11.098	1.00	34.92	B C
ATOM	1637	SE	MSE	B	53	-17.736	27.597	10.844	1.00	39.90	B S
ATOM	1638	CE	MSE	B	53	-16.721	26.100	10.153	1.00	35.58	B C
ATOM	1639	C	MSE	B	53	-15.026	27.017	14.179	1.00	31.91	B C
ATOM	1640	O	MSE	B	53	-15.009	25.835	13.859	1.00	32.69	B O
ATOM	1641	N	PRO	B	54	-14.282	27.493	15.195	1.00	32.96	B N
ATOM	1642	CD	PRO	B	54	-13.829	28.881	15.425	1.00	32.18	B C
ATOM	1643	CA	PRO	B	54	-13.432	26.548	15.937	1.00	31.50	B C
ATOM	1644	CB	PRO	B	54	-12.556	27.471	16.794	1.00	31.51	B C
ATOM	1645	CG	PRO	B	54	-12.375	28.673	15.884	1.00	30.93	B C
ATOM	1646	C	PRO	B	54	-14.243	25.575	16.776	1.00	30.53	B C
ATOM	1647	O	PRO	B	54	-13.939	24.397	16.817	1.00	31.04	B O
ATOM	1648	N	SER	B	55	-15.274	26.062	17.458	1.00	32.00	B N
ATOM	1649	CA	SER	B	55	-16.107	25.181	18.289	1.00	32.87	B C
ATOM	1650	CB	SER	B	55	-16.981	25.985	19.253	1.00	36.00	B C
ATOM	1651	OG	SER	B	55	-16.223	26.874	20.057	1.00	40.43	B O
ATOM	1652	C	SER	B	55	-17.015	24.320	17.411	1.00	31.80	B C
ATOM	1653	O	SER	B	55	-17.249	23.162	17.715	1.00	31.37	B O
ATOM	1654	N	LEU	B	56	-17.543	24.905	16.338	1.00	29.77	B N
ATOM	1655	CA	LEU	B	56	-18.395	24.164	15.417	1.00	28.90	B C
ATOM	1656	CB	LEU	B	56	-18.885	25.093	14.291	1.00	28.87	B C
ATOM	1657	CG	LEU	B	56	-19.655	24.378	13.183	1.00	27.11	B C
ATOM	1658	CD1	LEU	B	56	-20.585	25.355	12.499	1.00	27.97	B C
ATOM	1659	CD2	LEU	B	56	-18.672	23.754	12.196	1.00	25.95	B C
ATOM	1660	C	LEU	B	56	-17.588	22.994	14.826	1.00	29.56	B C
ATOM	1661	O	LEU	B	56	-18.049	21.847	14.801	1.00	30.11	B O
ATOM	1662	N	HIS	B	57	-16.387	23.306	14.350	1.00	27.73	B N
ATOM	1663	CA	HIS	B	57	-15.480	22.329	13.778	1.00	28.08	B C
ATOM	1664	CB	HIS	B	57	-14.187	23.017	13.352	1.00	29.38	B C
ATOM	1665	CG	HIS	B	57	-13.269	22.120	12.598	1.00	31.00	B C
ATOM	1666	CD2	HIS	B	57	-13.502	20.941	11.971	1.00	29.38	B C
ATOM	1667	ND1	HIS	B	57	-11.932	22.393	12.427	1.00	30.75	B N
ATOM	1668	CE1	HIS	B	57	-11.378	21.418	11.728	1.00	32.70	B C
ATOM	1669	NE2	HIS	B	57	-12.311	20.526	11.440	1.00	31.02	B N
ATOM	1670	C	HIS	B	57	-15.117	21.184	14.735	1.00	28.84	B C
ATOM	1671	O	HIS	B	57	-15.072	20.004	14.341	1.00	29.29	B O
ATOM	1672	N	SER	B	58	-14.829	21.522	15.986	1.00	28.00	B N
ATOM	1673	CA	SER	B	58	-14.488	20.498	16.957	1.00	27.83	B C

Table 7

ATOM	1674	CB	SER	B	58	-13.879	21.129	18.218	1.00	28.85	B C
ATOM	1675	OG	SER	B	58	-12.574	21.590	17.925	1.00	33.55	B O
ATOM	1676	C	SER	B	58	-15.687	19.650	17.353	1.00	26.36	B C
ATOM	1677	O	SER	B	58	-15.568	18.427	17.521	1.00	25.80	B O
ATOM	1678	N	LEU	B	59	-16.827	20.302	17.531	1.00	24.10	B N
ATOM	1679	CA	LEU	B	59	-18.036	19.591	17.938	1.00	24.29	B C
ATOM	1680	CB	LEU	B	59	-19.160	20.602	18.265	1.00	21.57	B C
ATOM	1681	CG	LEU	B	59	-20.471	20.034	18.817	1.00	24.08	B C
ATOM	1682	CD1	LEU	B	59	-20.222	19.283	20.104	1.00	24.04	B C
ATOM	1683	CD2	LEU	B	59	-21.437	21.141	19.096	1.00	24.01	B C
ATOM	1684	C	LEU	B	59	-18.442	18.612	16.805	1.00	24.65	B C
ATOM	1685	O	LEU	B	59	-19.129	17.619	17.033	1.00	24.50	B O
ATOM	1686	N	GLU	B	60	-17.973	18.883	15.589	1.00	24.73	B N
ATOM	1687	CA	GLU	B	60	-18.257	18.017	14.464	1.00	24.83	B C
ATOM	1688	CB	GLU	B	60	-18.002	18.767	13.161	1.00	25.58	B C
ATOM	1689	CG	GLU	B	60	-18.068	17.909	11.915	1.00	24.25	B C
ATOM	1690	CD	GLU	B	60	-17.131	18.451	10.845	1.00	27.58	B C
ATOM	1691	OE1	GLU	B	60	-17.425	18.290	9.629	1.00	28.36	B O
ATOM	1692	OE2	GLU	B	60	-16.087	19.026	11.234	1.00	23.19	B O
ATOM	1693	C	GLU	B	60	-17.376	16.765	14.535	1.00	25.70	B C
ATOM	1694	O	GLU	B	60	-17.828	15.673	14.228	1.00	23.34	B O
ATOM	1695	N	HIS	B	61	-16.112	16.934	14.920	1.00	27.36	B N
ATOM	1696	CA	HIS	B	61	-15.217	15.785	15.046	1.00	28.23	B C
ATOM	1697	CB	HIS	B	61	-13.768	16.204	15.321	1.00	28.56	B C
ATOM	1698	CG	HIS	B	61	-13.008	16.658	14.111	1.00	28.84	B C
ATOM	1699	CD2	HIS	B	61	-13.405	17.312	12.994	1.00	30.10	B C
ATOM	1700	ND1	HIS	B	61	-11.642	16.500	13.994	1.00	29.12	B N
ATOM	1701	CE1	HIS	B	61	-11.231	17.039	12.860	1.00	28.50	B C
ATOM	1702	NE2	HIS	B	61	-12.281	17.543	12.236	1.00	28.38	B N
ATOM	1703	C	HIS	B	61	-15.679	14.936	16.226	1.00	29.20	B C
ATOM	1704	O	HIS	B	61	-15.837	13.716	16.098	1.00	31.35	B O
ATOM	1705	N	LEU	B	62	-15.922	15.581	17.368	1.00	28.30	B N
ATOM	1706	CA	LEU	B	62	-16.325	14.873	18.590	1.00	28.27	B C
ATOM	1707	CB	LEU	B	62	-16.429	15.856	19.774	1.00	28.82	B C
ATOM	1708	CG	LEU	B	62	-15.177	16.395	20.498	1.00	29.62	B C
ATOM	1709	CD1	LEU	B	62	-15.582	17.528	21.440	1.00	28.32	B C
ATOM	1710	CD2	LEU	B	62	-14.519	15.289	21.322	1.00	27.57	B C
ATOM	1711	C	LEU	B	62	-17.628	14.111	18.460	1.00	28.13	B C
ATOM	1712	O	LEU	B	62	-17.741	12.970	18.881	1.00	29.56	B O
ATOM	1713	N	VAL	B	63	-18.629	14.759	17.899	1.00	29.08	B N
ATOM	1714	CA	VAL	B	63	-19.921	14.145	17.708	1.00	28.49	B C
ATOM	1715	CB	VAL	B	63	-20.959	15.167	17.364	1.00	29.19	B C
ATOM	1716	CG1	VAL	B	63	-22.295	14.447	17.076	1.00	27.72	B C
ATOM	1717	CG2	VAL	B	63	-21.057	16.186	18.492	1.00	26.36	B C
ATOM	1718	C	VAL	B	63	-19.908	13.126	16.569	1.00	29.72	B C
ATOM	1719	O	VAL	B	63	-20.551	12.096	16.665	1.00	30.01	B O
ATOM	1720	N	ALA	B	64	-19.188	13.411	15.488	1.00	29.55	B N
ATOM	1721	CA	ALA	B	64	-19.150	12.463	14.387	1.00	29.74	B C
ATOM	1722	CB	ALA	B	64	-18.282	12.982	13.252	1.00	26.81	B C
ATOM	1723	C	ALA	B	64	-18.570	11.168	14.926	1.00	30.12	B C
ATOM	1724	O	ALA	B	64	-19.054	10.070	14.627	1.00	29.66	B O
ATOM	1725	N	GLU	B	65	-17.536	11.312	15.735	1.00	31.76	B N
ATOM	1726	CA	GLU	B	65	-16.859	10.168	16.304	1.00	35.90	B C
ATOM	1727	CB	GLU	B	65	-15.481	10.567	16.821	1.00	39.00	B C
ATOM	1728	CG	GLU	B	65	-14.600	9.373	17.101	1.00	45.62	B C
ATOM	1729	CD	GLU	B	65	-14.351	8.551	15.832	1.00	49.55	B C
ATOM	1730	OE1	GLU	B	65	-14.559	9.122	14.733	1.00	50.51	B O

Table 7

ATOM	1731	OE2	GLU	B	65	-13.942	7.355	15.926	1.00	49.73	B O
ATOM	1732	C	GLU	B	65	-17.628	9.487	17.422	1.00	35.62	B C
ATOM	1733	O	GLU	B	65	-17.749	8.278	17.424	1.00	37.97	B O
ATOM	1734	N	ILE	B	66	-18.159	10.243	18.370	1.00	34.30	B N
ATOM	1735	CA	ILE	B	66	-18.872	9.606	19.478	1.00	32.92	B C
ATOM	1736	CB	ILE	B	66	-19.010	10.573	20.688	1.00	31.71	B C
ATOM	1737	CG2	ILE	B	66	-20.030	10.058	21.648	1.00	28.98	B C
ATOM	1738	CG1	ILE	B	66	-17.638	10.731	21.372	1.00	33.23	B C
ATOM	1739	CD1	ILE	B	66	-17.580	11.770	22.447	1.00	32.63	B C
ATOM	1740	C	ILE	B	66	-20.241	9.017	19.175	1.00	31.97	B C
ATOM	1741	O	ILE	B	66	-20.582	7.956	19.690	1.00	32.62	B O
ATOM	1742	N	ILE	B	67	-21.031	9.669	18.336	1.00	30.10	B N
ATOM	1743	CA	ILE	B	67	-22.338	9.123	18.101	1.00	29.82	B C
ATOM	1744	CB	ILE	B	67	-23.184	10.039	17.244	1.00	27.84	B C
ATOM	1745	CG2	ILE	B	67	-22.601	10.142	15.878	1.00	26.49	B C
ATOM	1746	CG1	ILE	B	67	-24.627	9.525	17.243	1.00	28.13	B C
ATOM	1747	CD1	ILE	B	67	-25.633	10.509	16.716	1.00	30.16	B C
ATOM	1748	C	ILE	B	67	-22.279	7.724	17.523	1.00	31.21	B C
ATOM	1749	O	ILE	B	67	-23.095	6.886	17.872	1.00	32.65	B O
ATOM	1750	N	ARG	B	68	-21.292	7.453	16.682	1.00	32.77	B N
ATOM	1751	CA	ARG	B	68	-21.155	6.125	16.111	1.00	34.17	B C
ATOM	1752	CB	ARG	B	68	-20.238	6.161	14.862	1.00	34.29	B C
ATOM	1753	CG	ARG	B	68	-21.006	6.558	13.588	1.00	32.59	B C
ATOM	1754	CD	ARG	B	68	-20.142	6.802	12.365	1.00	32.08	B C
ATOM	1755	NE	ARG	B	68	-19.827	8.207	12.306	1.00	34.34	B N
ATOM	1756	CZ	ARG	B	68	-20.188	9.052	11.348	1.00	32.03	B C
ATOM	1757	NH1	ARG	B	68	-20.885	8.645	10.301	1.00	31.16	B N
ATOM	1758	NH2	ARG	B	68	-19.883	10.337	11.487	1.00	31.06	B N
ATOM	1759	C	ARG	B	68	-20.701	5.076	17.137	1.00	35.30	B C
ATOM	1760	O	ARG	B	68	-20.444	3.942	16.782	1.00	36.69	B O
ATOM	1761	N	ASN	B	69	-20.609	5.450	18.411	1.00	36.31	B N
ATOM	1762	CA	ASN	B	69	-20.269	4.471	19.460	1.00	36.09	B C
ATOM	1763	CB	ASN	B	69	-19.488	5.068	20.637	1.00	34.59	B C
ATOM	1764	CG	ASN	B	69	-18.071	5.458	20.286	1.00	35.01	B C
ATOM	1765	OD1	ASN	B	69	-17.360	4.744	19.569	1.00	33.75	B O
ATOM	1766	ND2	ASN	B	69	-17.635	6.592	20.825	1.00	35.73	B N
ATOM	1767	C	ASN	B	69	-21.603	4.040	20.025	1.00	36.30	B C
ATOM	1768	O	ASN	B	69	-21.751	2.910	20.486	1.00	39.82	B O
ATOM	1769	N	HIS	B	70	-22.585	4.941	19.996	1.00	34.71	B N
ATOM	1770	CA	HIS	B	70	-23.910	4.648	20.544	1.00	32.29	B C
ATOM	1771	CB	HIS	B	70	-24.450	5.872	21.302	1.00	33.21	B C
ATOM	1772	CG	HIS	B	70	-23.484	6.481	22.272	1.00	34.99	B C
ATOM	1773	CD2	HIS	B	70	-22.638	7.535	22.146	1.00	36.62	B C
ATOM	1774	ND1	HIS	B	70	-23.284	5.982	23.544	1.00	37.67	B N
ATOM	1775	CE1	HIS	B	70	-22.355	6.696	24.156	1.00	36.28	B C
ATOM	1776	NE2	HIS	B	70	-21.944	7.644	23.330	1.00	36.79	B N
ATOM	1777	C	HIS	B	70	-24.960	4.225	19.504	1.00	31.15	B C
ATOM	1778	O	HIS	B	70	-26.086	3.933	19.863	1.00	30.22	B O
ATOM	1779	N	ALA	B	71	-24.607	4.195	18.218	1.00	31.16	B N
ATOM	1780	CA	ALA	B	71	-25.573	3.809	17.185	1.00	28.26	B C
ATOM	1781	CB	ALA	B	71	-26.404	4.996	16.803	1.00	26.98	B C
ATOM	1782	C	ALA	B	71	-24.911	3.247	15.945	1.00	28.13	B C
ATOM	1783	O	ALA	B	71	-23.938	3.809	15.453	1.00	28.51	B O
ATOM	1784	N	ASN	B	72	-25.447	2.150	15.424	1.00	27.31	B N
ATOM	1785	CA	ASN	B	72	-24.882	1.542	14.223	1.00	28.90	B C
ATOM	1786	CB	ASN	B	72	-25.042	0.008	14.274	1.00	28.66	B C
ATOM	1787	CG	ASN	B	72	-26.507	-0.439	14.300	1.00	32.42	B C

Table 7

ATOM	1788	OD1	ASN	B	72	-27.421	0.385	14.207	1.00	34.37	B O
ATOM	1789	ND2	ASN	B	72	-26.739	-1.762	14.419	1.00	30.81	B N
ATOM	1790	C	ASN	B	72	-25.490	2.090	12.897	1.00	28.87	B C
ATOM	1791	O	ASN	B	72	-25.006	1.803	11.827	1.00	26.25	B O
ATOM	1792	N	TYR	B	77	-26.517	2.923	12.978	1.00	29.22	B N
ATOM	1793	CA	TYR	B	77	-27.174	3.419	11.764	1.00	28.81	B C
ATOM	1794	CB	TYR	B	77	-28.665	3.281	11.957	1.00	29.77	B C
ATOM	1795	CG	TYR	B	77	-29.066	3.868	13.279	1.00	32.06	B C
ATOM	1796	CD1	TYR	B	77	-29.301	5.230	13.419	1.00	32.53	B C
ATOM	1797	CE1	TYR	B	77	-29.672	5.774	14.657	1.00	33.72	B C
ATOM	1798	CD2	TYR	B	77	-29.197	3.061	14.409	1.00	32.36	B C
ATOM	1799	CE2	TYR	B	77	-29.561	3.594	15.637	1.00	32.97	B C
ATOM	1800	CZ	TYR	B	77	-29.804	4.946	15.755	1.00	33.11	B C
ATOM	1801	OH	TYR	B	77	-30.215	5.458	16.969	1.00	35.70	B O
ATOM	1802	C	TYR	B	77	-26.902	4.842	11.323	1.00	28.31	B C
ATOM	1803	O	TYR	B	77	-27.677	5.380	10.540	1.00	29.48	B O
ATOM	1804	N	VAL	B	78	-25.847	5.469	11.820	1.00	26.27	B N
ATOM	1805	CA	VAL	B	78	-25.562	6.842	11.420	1.00	25.83	B C
ATOM	1806	CB	VAL	B	78	-24.652	7.558	12.457	1.00	26.11	B C
ATOM	1807	CG1	VAL	B	78	-24.129	8.880	11.870	1.00	24.13	B C
ATOM	1808	CG2	VAL	B	78	-25.433	7.808	13.768	1.00	23.87	B C
ATOM	1809	C	VAL	B	78	-24.883	6.909	10.054	1.00	27.43	B C
ATOM	1810	O	VAL	B	78	-23.875	6.232	9.811	1.00	29.48	B O
ATOM	1811	N	VAL	B	79	-25.431	7.732	9.167	1.00	26.69	B N
ATOM	1812	CA	VAL	B	79	-24.888	7.914	7.821	1.00	24.42	B C
ATOM	1813	CB	VAL	B	79	-26.037	8.112	6.805	1.00	23.47	B C
ATOM	1814	CG1	VAL	B	79	-25.507	8.357	5.406	1.00	21.70	B C
ATOM	1815	CG2	VAL	B	79	-26.912	6.903	6.812	1.00	22.51	B C
ATOM	1816	C	VAL	B	79	-23.964	9.133	7.764	1.00	25.74	B C
ATOM	1817	O	VAL	B	79	-22.877	9.102	7.177	1.00	25.05	B O
ATOM	1818	N	ASP	B	80	-24.392	10.219	8.386	1.00	26.81	B N
ATOM	1819	CA	ASP	B	80	-23.596	11.426	8.345	1.00	26.52	B C
ATOM	1820	CB	ASP	B	80	-23.889	12.117	7.023	1.00	26.42	B C
ATOM	1821	CG	ASP	B	80	-22.932	13.264	6.733	1.00	33.95	B C
ATOM	1822	OD1	ASP	B	80	-21.765	12.992	6.318	1.00	33.71	B O
ATOM	1823	OD2	ASP	B	80	-23.351	14.451	6.911	1.00	34.55	B O
ATOM	1824	C	ASP	B	80	-23.922	12.373	9.509	1.00	24.60	B C
ATOM	1825	O	ASP	B	80	-25.011	12.337	10.030	1.00	24.21	B O
ATOM	1826	N	TRP	B	81	-22.948	13.170	9.936	1.00	24.07	B N
ATOM	1827	CA	TRP	B	81	-23.158	14.222	10.941	1.00	23.47	B C
ATOM	1828	CB	TRP	B	81	-22.592	13.872	12.314	1.00	22.50	B C
ATOM	1829	CG	TRP	B	81	-22.496	15.109	13.210	1.00	23.75	B C
ATOM	1830	CD2	TRP	B	81	-23.529	15.637	14.065	1.00	22.40	B C
ATOM	1831	CE2	TRP	B	81	-23.001	16.772	14.703	1.00	21.04	B C
ATOM	1832	CE3	TRP	B	81	-24.853	15.254	14.349	1.00	22.51	B C
ATOM	1833	CD1	TRP	B	81	-21.417	15.943	13.358	1.00	21.12	B C
ATOM	1834	NE1	TRP	B	81	-21.716	16.940	14.249	1.00	22.26	B N
ATOM	1835	CZ2	TRP	B	81	-23.735	17.523	15.612	1.00	19.87	B C
ATOM	1836	CZ3	TRP	B	81	-25.581	16.010	15.249	1.00	22.90	B C
ATOM	1837	CH2	TRP	B	81	-25.015	17.134	15.872	1.00	18.51	B C
ATOM	1838	C	TRP	B	81	-22.385	15.402	10.342	1.00	23.99	B C
ATOM	1839	O	TRP	B	81	-21.158	15.396	10.355	1.00	24.74	B O
ATOM	1840	N	SER	B	82	-23.111	16.382	9.798	1.00	23.67	B N
ATOM	1841	CA	SER	B	82	-22.519	17.530	9.106	1.00	23.29	B C
ATOM	1842	CB	SER	B	82	-22.761	17.387	7.596	1.00	26.41	B C
ATOM	1843	OG	SER	B	82	-21.965	16.358	7.005	1.00	30.72	B O
ATOM	1844	C	SER	B	82	-23.025	18.906	9.534	1.00	23.43	B C

Table 7

ATOM	1845	O	SER	B	82	-24.224	19.108	9.736	1.00	24.46	B	O
ATOM	1846	N	PRO	B	83	-22.122	19.882	9.657	1.00	22.38	B	N
ATOM	1847	CD	PRO	B	83	-20.660	19.825	9.470	1.00	23.38	B	C
ATOM	1848	CA	PRO	B	83	-22.533	21.224	10.057	1.00	22.58	B	C
ATOM	1849	CB	PRO	B	83	-21.208	21.904	10.391	1.00	22.95	B	C
ATOM	1850	CG	PRO	B	83	-20.284	21.323	9.357	1.00	23.24	B	C
ATOM	1851	C	PRO	B	83	-23.233	21.942	8.930	1.00	22.94	B	C
ATOM	1852	O	PRO	B	83	-23.127	21.550	7.763	1.00	24.10	B	O
ATOM	1853	N	MSE	B	84	-23.936	23.009	9.291	1.00	23.18	B	N
ATOM	1854	CA	MSE	B	84	-24.651	23.847	8.343	1.00	23.28	B	C
ATOM	1855	CB	MSE	B	84	-25.966	24.298	8.957	1.00	24.96	B	C
ATOM	1856	CG	MSE	B	84	-26.966	23.180	9.153	1.00	28.66	B	C
ATOM	1857	SE	MSE	B	84	-28.520	23.762	10.205	1.00	37.48	B	S
ATOM	1858	CE	MSE	B	84	-29.447	22.064	10.240	1.00	33.14	B	C
ATOM	1859	C	MSE	B	84	-23.781	25.074	8.041	1.00	23.67	B	C
ATOM	1860	O	MSE	B	84	-23.072	25.586	8.932	1.00	22.22	B	O
ATOM	1861	N	GLY	B	85	-23.828	25.542	6.794	1.00	22.28	B	N
ATOM	1862	CA	GLY	B	85	-23.058	26.716	6.421	1.00	23.48	B	C
ATOM	1863	C	GLY	B	85	-23.472	27.915	7.267	1.00	24.13	B	C
ATOM	1864	O	GLY	B	85	-22.663	28.793	7.578	1.00	25.74	B	O
ATOM	1865	N	CYS	B	86	-24.736	27.954	7.670	1.00	23.13	B	N
ATOM	1866	CA	CYS	B	86	-25.210	29.065	8.475	1.00	23.25	B	C
ATOM	1867	CB	CYS	B	86	-26.735	29.055	8.521	1.00	23.72	B	C
ATOM	1868	SG	CYS	B	86	-27.518	27.469	9.013	1.00	26.01	B	S
ATOM	1869	C	CYS	B	86	-24.633	29.054	9.898	1.00	25.38	B	C
ATOM	1870	O	CYS	B	86	-24.994	29.903	10.708	1.00	25.90	B	O
ATOM	1871	N	GLN	B	87	-23.758	28.082	10.192	1.00	24.98	B	N
ATOM	1872	CA	GLN	B	87	-23.104	27.941	11.496	1.00	24.32	B	C
ATOM	1873	CB	GLN	B	87	-22.141	29.103	11.707	1.00	23.13	B	C
ATOM	1874	CG	GLN	B	87	-20.989	29.151	10.728	1.00	21.63	B	C
ATOM	1875	CD	GLN	B	87	-20.087	30.356	10.960	1.00	19.25	B	C
ATOM	1876	OE1	GLN	B	87	-19.626	30.589	12.070	1.00	23.11	B	O
ATOM	1877	NE2	GLN	B	87	-19.818	31.097	9.921	1.00	17.25	B	N
ATOM	1878	C	GLN	B	87	-24.091	27.886	12.653	1.00	25.45	B	C
ATOM	1879	O	GLN	B	87	-23.763	28.149	13.810	1.00	26.20	B	O
ATOM	1880	N	THR	B	88	-25.298	27.464	12.357	1.00	26.11	B	N
ATOM	1881	CA	THR	B	88	-26.344	27.473	13.354	1.00	24.28	B	C
ATOM	1882	CB	THR	B	88	-27.518	28.261	12.694	1.00	25.37	B	C
ATOM	1883	OG1	THR	B	88	-27.782	29.461	13.434	1.00	27.77	B	O
ATOM	1884	CG2	THR	B	88	-28.708	27.429	12.529	1.00	22.48	B	C
ATOM	1885	C	THR	B	88	-26.760	26.085	13.843	1.00	25.84	B	C
ATOM	1886	O	THR	B	88	-27.509	25.953	14.822	1.00	27.23	B	O
ATOM	1887	N	GLY	B	89	-26.277	25.042	13.170	1.00	25.02	B	N
ATOM	1888	CA	GLY	B	89	-26.678	23.702	13.561	1.00	25.38	B	C
ATOM	1889	C	GLY	B	89	-26.070	22.616	12.712	1.00	23.44	B	C
ATOM	1890	O	GLY	B	89	-25.179	22.877	11.912	1.00	25.86	B	O
ATOM	1891	N	PHE	B	90	-26.561	21.401	12.866	1.00	23.12	B	N
ATOM	1892	CA	PHE	B	90	-26.025	20.259	12.118	1.00	23.44	B	C
ATOM	1893	CB	PHE	B	90	-25.144	19.374	13.031	1.00	23.14	B	C
ATOM	1894	CG	PHE	B	90	-23.964	20.074	13.661	1.00	22.67	B	C
ATOM	1895	CD1	PHE	B	90	-22.703	19.957	13.109	1.00	23.69	B	C
ATOM	1896	CD2	PHE	B	90	-24.108	20.787	14.860	1.00	26.04	B	C
ATOM	1897	CE1	PHE	B	90	-21.589	20.528	13.719	1.00	24.57	B	C
ATOM	1898	CE2	PHE	B	90	-23.003	21.368	15.494	1.00	24.46	B	C
ATOM	1899	CZ	PHE	B	90	-21.739	21.238	14.922	1.00	25.80	B	C
ATOM	1900	C	PHE	B	90	-27.094	19.335	11.549	1.00	22.39	B	C
ATOM	1901	O	PHE	B	90	-28.163	19.217	12.115	1.00	22.38	B	O

Table 7

ATOM	1902	N	TYR	B	91	-26.801	18.679	10.431	1.00	21.67	B	N
ATOM	1903	CA	TYR	B	91	-27.728	17.702	9.913	1.00	21.11	B	C
ATOM	1904	CB	TYR	B	91	-27.853	17.772	8.389	1.00	24.93	B	C
ATOM	1905	CG	TYR	B	91	-28.768	18.862	7.875	1.00	27.49	B	C
ATOM	1906	CD1	TYR	B	91	-30.164	18.803	8.082	1.00	29.25	B	C
ATOM	1907	CE1	TYR	B	91	-31.017	19.801	7.600	1.00	29.86	B	C
ATOM	1908	CD2	TYR	B	91	-28.255	19.945	7.177	1.00	27.95	B	C
ATOM	1909	CE2	TYR	B	91	-29.096	20.948	6.694	1.00	32.10	B	C
ATOM	1910	CZ	TYR	B	91	-30.469	20.872	6.909	1.00	32.64	B	C
ATOM	1911	OH	TYR	B	91	-31.273	21.895	6.444	1.00	36.81	B	O
ATOM	1912	C	TYR	B	91	-27.191	16.331	10.327	1.00	21.35	B	C
ATOM	1913	O	TYR	B	91	-25.989	16.066	10.289	1.00	21.14	B	O
ATOM	1914	N	LEU	B	92	-28.092	15.468	10.768	1.00	20.90	B	N
ATOM	1915	CA	LEU	B	92	-27.751	14.119	11.166	1.00	18.94	B	C
ATOM	1916	CB	LEU	B	92	-28.193	13.860	12.602	1.00	17.73	B	C
ATOM	1917	CG	LEU	B	92	-28.328	12.400	13.026	1.00	19.90	B	C
ATOM	1918	CD1	LEU	B	92	-26.964	11.658	12.986	1.00	19.27	B	C
ATOM	1919	CD2	LEU	B	92	-28.947	12.393	14.425	1.00	17.56	B	C
ATOM	1920	C	LEU	B	92	-28.554	13.236	10.202	1.00	22.15	B	C
ATOM	1921	O	LEU	B	92	-29.769	13.421	9.982	1.00	21.43	B	O
ATOM	1922	N	THR	B	93	-27.866	12.284	9.602	1.00	22.75	B	N
ATOM	1923	CA	THR	B	93	-28.509	11.404	8.666	1.00	23.90	B	C
ATOM	1924	CB	THR	B	93	-27.890	11.583	7.292	1.00	23.27	B	C
ATOM	1925	OG1	THR	B	93	-27.978	12.970	6.941	1.00	25.89	B	O
ATOM	1926	CG2	THR	B	93	-28.628	10.772	6.256	1.00	24.63	B	C
ATOM	1927	C	THR	B	93	-28.354	9.978	9.131	1.00	24.36	B	C
ATOM	1928	O	THR	B	93	-27.243	9.531	9.456	1.00	23.26	B	O
ATOM	1929	N	VAL	B	94	-29.485	9.282	9.186	1.00	24.42	B	N
ATOM	1930	CA	VAL	B	94	-29.517	7.872	9.578	1.00	25.31	B	C
ATOM	1931	CB	VAL	B	94	-30.263	7.706	10.919	1.00	23.29	B	C
ATOM	1932	CG1	VAL	B	94	-29.377	8.216	12.073	1.00	20.96	B	C
ATOM	1933	CG2	VAL	B	94	-31.568	8.479	10.882	1.00	21.24	B	C
ATOM	1934	C	VAL	B	94	-30.174	7.003	8.466	1.00	25.31	B	C
ATOM	1935	O	VAL	B	94	-30.851	7.510	7.576	1.00	25.50	B	O
ATOM	1936	N	LEU	B	95	-29.957	5.701	8.521	1.00	26.49	B	N
ATOM	1937	CA	LEU	B	95	-30.528	4.765	7.551	1.00	27.46	B	C
ATOM	1938	CB	LEU	B	95	-29.406	4.181	6.690	1.00	29.25	B	C
ATOM	1939	CG	LEU	B	95	-29.779	2.978	5.822	1.00	30.93	B	C
ATOM	1940	CD1	LEU	B	95	-30.466	3.473	4.542	1.00	30.86	B	C
ATOM	1941	CD2	LEU	B	95	-28.511	2.177	5.493	1.00	31.48	B	C
ATOM	1942	C	LEU	B	95	-31.234	3.628	8.329	1.00	28.47	B	C
ATOM	1943	O	LEU	B	95	-30.746	3.198	9.385	1.00	27.98	B	O
ATOM	1944	N	ASN	B	96	-32.377	3.168	7.825	1.00	27.42	B	N
ATOM	1945	CA	ASN	B	96	-33.148	2.087	8.446	1.00	28.59	B	C
ATOM	1946	CB	ASN	B	96	-32.462	0.734	8.227	1.00	29.24	B	C
ATOM	1947	CG	ASN	B	96	-32.254	0.413	6.763	1.00	31.74	B	C
ATOM	1948	OD1	ASN	B	96	-31.171	-0.026	6.368	1.00	35.41	B	O
ATOM	1949	ND2	ASN	B	96	-33.278	0.627	5.948	1.00	28.83	B	N
ATOM	1950	C	ASN	B	96	-33.405	2.258	9.941	1.00	29.92	B	C
ATOM	1951	O	ASN	B	96	-33.374	1.287	10.708	1.00	29.29	B	O
ATOM	1952	N	HIS	B	97	-33.617	3.497	10.364	1.00	31.31	B	N
ATOM	1953	CA	HIS	B	97	-33.933	3.781	11.760	1.00	32.35	B	C
ATOM	1954	CB	HIS	B	97	-32.734	4.293	12.546	1.00	33.42	B	C
ATOM	1955	CG	HIS	B	97	-33.008	4.449	14.001	1.00	36.57	B	C
ATOM	1956	CD2	HIS	B	97	-32.778	3.616	15.044	1.00	36.49	B	C
ATOM	1957	ND1	HIS	B	97	-33.654	5.551	14.523	1.00	38.95	B	N
ATOM	1958	CE1	HIS	B	97	-33.808	5.389	15.825	1.00	38.60	B	C

Table 7

ATOM	1959	NE2	HIS	B	97	-33.285	4.223	16.167	1.00	38.28	B	N
ATOM	1960	C	HIS	B	97	-34.955	4.862	11.661	1.00	32.74	B	C
ATOM	1961	O	HIS	B	97	-34.770	5.818	10.896	1.00	31.72	B	O
ATOM	1962	N	ASP	B	98	-36.047	4.703	12.405	1.00	33.54	B	N
ATOM	1963	CA	ASP	B	98	-37.123	5.671	12.362	1.00	33.48	B	C
ATOM	1964	CB	ASP	B	98	-38.149	5.188	11.353	1.00	36.13	B	C
ATOM	1965	CG	ASP	B	98	-39.183	6.238	11.025	1.00	37.98	B	C
ATOM	1966	OD1	ASP	B	98	-38.838	7.438	11.104	1.00	39.01	B	O
ATOM	1967	OD2	ASP	B	98	-40.331	5.864	10.674	1.00	40.70	B	O
ATOM	1968	C	ASP	B	98	-37.806	5.952	13.703	1.00	33.81	B	C
ATOM	1969	O	ASP	B	98	-39.033	6.069	13.762	1.00	34.07	B	O
ATOM	1970	N	ASN	B	99	-37.024	6.059	14.778	1.00	32.66	B	N
ATOM	1971	CA	ASN	B	99	-37.598	6.343	16.081	1.00	30.43	B	C
ATOM	1972	CB	ASN	B	99	-37.320	5.221	17.081	1.00	31.91	B	C
ATOM	1973	CG	ASN	B	99	-38.017	5.475	18.387	1.00	34.33	B	C
ATOM	1974	OD1	ASN	B	99	-39.204	5.179	18.543	1.00	36.29	B	O
ATOM	1975	ND2	ASN	B	99	-37.308	6.087	19.320	1.00	34.44	B	N
ATOM	1976	C	ASN	B	99	-37.067	7.655	16.634	1.00	28.16	B	C
ATOM	1977	O	ASN	B	99	-35.905	7.771	17.035	1.00	25.44	B	O
ATOM	1978	N	TYR	B	100	-37.946	8.648	16.683	1.00	28.44	B	N
ATOM	1979	CA	TYR	B	100	-37.551	9.966	17.137	1.00	26.60	B	C
ATOM	1980	CB	TYR	B	100	-38.722	10.929	16.940	1.00	26.28	B	C
ATOM	1981	CG	TYR	B	100	-38.426	12.348	17.352	1.00	26.92	B	C
ATOM	1982	CD1	TYR	B	100	-37.749	13.222	16.509	1.00	24.35	B	C
ATOM	1983	CE1	TYR	B	100	-37.416	14.530	16.947	1.00	25.07	B	C
ATOM	1984	CD2	TYR	B	100	-38.775	12.799	18.637	1.00	26.89	B	C
ATOM	1985	CE2	TYR	B	100	-38.455	14.086	19.075	1.00	25.59	B	C
ATOM	1986	CZ	TYR	B	100	-37.782	14.945	18.231	1.00	26.28	B	C
ATOM	1987	OH	TYR	B	100	-37.550	16.230	18.671	1.00	26.84	B	O
ATOM	1988	C	TYR	B	100	-37.047	9.942	18.582	1.00	27.14	B	C
ATOM	1989	O	TYR	B	100	-35.970	10.465	18.858	1.00	27.81	B	O
ATOM	1990	N	THR	B	101	-37.794	9.329	19.506	1.00	27.00	B	N
ATOM	1991	CA	THR	B	101	-37.353	9.282	20.891	1.00	25.54	B	C
ATOM	1992	CB	THR	B	101	-38.302	8.432	21.761	1.00	27.42	B	C
ATOM	1993	OG1	THR	B	101	-39.584	9.077	21.828	1.00	26.33	B	O
ATOM	1994	CG2	THR	B	101	-37.729	8.264	23.189	1.00	28.24	B	C
ATOM	1995	C	THR	B	101	-35.943	8.743	21.013	1.00	26.34	B	C
ATOM	1996	O	THR	B	101	-35.101	9.382	21.628	1.00	27.90	B	O
ATOM	1997	N	GLU	B	102	-35.672	7.570	20.443	1.00	26.96	B	N
ATOM	1998	CA	GLU	B	102	-34.330	6.979	20.510	1.00	27.52	B	C
ATOM	1999	CB	GLU	B	102	-34.264	5.685	19.714	1.00	30.73	B	C
ATOM	2000	CG	GLU	B	102	-35.259	4.619	20.117	1.00	35.95	B	C
ATOM	2001	CD	GLU	B	102	-35.020	3.311	19.380	1.00	40.14	B	C
ATOM	2002	OE1	GLU	B	102	-35.003	3.308	18.119	1.00	42.49	B	O
ATOM	2003	OE2	GLU	B	102	-34.843	2.274	20.069	1.00	42.93	B	O
ATOM	2004	C	GLU	B	102	-33.228	7.928	19.978	1.00	27.71	B	C
ATOM	2005	O	GLU	B	102	-32.093	7.890	20.484	1.00	26.39	B	O
ATOM	2006	N	ILE	B	103	-33.542	8.754	18.969	1.00	26.10	B	N
ATOM	2007	CA	ILE	B	103	-32.557	9.705	18.445	1.00	27.36	B	C
ATOM	2008	CB	ILE	B	103	-33.039	10.431	17.123	1.00	29.07	B	C
ATOM	2009	CG2	ILE	B	103	-32.024	11.510	16.724	1.00	28.60	B	C
ATOM	2010	CG1	ILE	B	103	-33.204	9.433	15.957	1.00	26.59	B	C
ATOM	2011	CD1	ILE	B	103	-31.949	8.596	15.642	1.00	26.19	B	C
ATOM	2012	C	ILE	B	103	-32.207	10.773	19.509	1.00	27.69	B	C
ATOM	2013	O	ILE	B	103	-31.055	11.205	19.602	1.00	27.85	B	O
ATOM	2014	N	LEU	B	104	-33.186	11.228	20.294	1.00	27.30	B	N
ATOM	2015	CA	LEU	B	104	-32.860	12.175	21.345	1.00	27.40	B	C

Table 7

ATOM	2016	CB	LEU	B	104	-34.109	12.744	22.028	1.00	28.17	B	C
ATOM	2017	CG	LEU	B	104	-35.039	13.594	21.147	1.00	29.21	B	C
ATOM	2018	CD1	LEU	B	104	-35.867	14.539	22.001	1.00	27.26	B	C
ATOM	2019	CD2	LEU	B	104	-34.202	14.389	20.147	1.00	29.36	B	C
ATOM	2020	C	LEU	B	104	-32.005	11.461	22.386	1.00	28.46	B	C
ATOM	2021	O	LEU	B	104	-31.098	12.064	22.929	1.00	29.11	B	O
ATOM	2022	N	GLU	B	105	-32.263	10.178	22.661	1.00	29.70	B	N
ATOM	2023	CA	GLU	B	105	-31.441	9.466	23.658	1.00	30.74	B	C
ATOM	2024	CB	GLU	B	105	-31.989	8.073	24.005	1.00	33.02	B	C
ATOM	2025	CG	GLU	B	105	-33.367	8.059	24.694	1.00	39.20	B	C
ATOM	2026	CD	GLU	B	105	-33.658	9.307	25.559	1.00	44.01	B	C
ATOM	2027	OE1	GLU	B	105	-32.848	9.653	26.478	1.00	46.86	B	O
ATOM	2028	OE2	GLU	B	105	-34.719	9.946	25.313	1.00	44.90	B	O
ATOM	2029	C	GLU	B	105	-30.019	9.311	23.171	1.00	30.36	B	C
ATOM	2030	O	GLU	B	105	-29.076	9.476	23.941	1.00	31.68	B	O
ATOM	2031	N	VAL	B	106	-29.853	9.005	21.894	1.00	28.26	B	N
ATOM	2032	CA	VAL	B	106	-28.518	8.851	21.353	1.00	25.88	B	C
ATOM	2033	CB	VAL	B	106	-28.557	8.335	19.888	1.00	25.31	B	C
ATOM	2034	CG1	VAL	B	106	-27.188	8.386	19.283	1.00	26.40	B	C
ATOM	2035	CG2	VAL	B	106	-29.050	6.905	19.853	1.00	26.35	B	C
ATOM	2036	C	VAL	B	106	-27.782	10.189	21.401	1.00	25.58	B	C
ATOM	2037	O	VAL	B	106	-26.592	10.217	21.708	1.00	26.93	B	O
ATOM	2038	N	LEU	B	107	-28.471	11.293	21.083	1.00	25.80	B	N
ATOM	2039	CA	LEU	B	107	-27.844	12.623	21.101	1.00	24.92	B	C
ATOM	2040	CB	LEU	B	107	-28.764	13.697	20.527	1.00	21.61	B	C
ATOM	2041	CG	LEU	B	107	-28.959	13.763	19.009	1.00	24.92	B	C
ATOM	2042	CD1	LEU	B	107	-29.978	14.871	18.712	1.00	21.93	B	C
ATOM	2043	CD2	LEU	B	107	-27.628	14.043	18.268	1.00	21.65	B	C
ATOM	2044	C	LEU	B	107	-27.482	13.003	22.519	1.00	25.85	B	C
ATOM	2045	O	LEU	B	107	-26.418	13.560	22.752	1.00	25.21	B	O
ATOM	2046	N	GLU	B	108	-28.385	12.707	23.461	1.00	28.81	B	N
ATOM	2047	CA	GLU	B	108	-28.164	12.987	24.884	1.00	30.99	B	C
ATOM	2048	CB	GLU	B	108	-29.372	12.532	25.717	1.00	33.31	B	C
ATOM	2049	CG	GLU	B	108	-29.235	12.787	27.221	1.00	36.67	B	C
ATOM	2050	CD	GLU	B	108	-30.543	13.224	27.862	1.00	39.70	B	C
ATOM	2051	OE1	GLU	B	108	-31.501	12.420	27.979	1.00	42.24	B	O
ATOM	2052	OE2	GLU	B	108	-30.618	14.401	28.254	1.00	42.48	B	O
ATOM	2053	C	GLU	B	108	-26.922	12.216	25.294	1.00	31.59	B	C
ATOM	2054	O	GLU	B	108	-25.919	12.802	25.722	1.00	33.33	B	O
ATOM	2055	N	LYS	B	109	-26.986	10.898	25.153	1.00	32.39	B	N
ATOM	2056	CA	LYS	B	109	-25.840	10.060	25.473	1.00	33.17	B	C
ATOM	2057	CB	LYS	B	109	-26.032	8.638	24.917	1.00	35.29	B	C
ATOM	2058	CG	LYS	B	109	-26.097	7.510	25.954	1.00	37.66	B	C
ATOM	2059	CD	LYS	B	109	-27.548	7.123	26.295	1.00	41.63	B	C
ATOM	2060	CE	LYS	B	109	-27.693	5.596	26.336	1.00	42.56	B	C
ATOM	2061	NZ	LYS	B	109	-27.048	5.017	25.113	1.00	42.36	B	N
ATOM	2062	C	LYS	B	109	-24.603	10.689	24.826	1.00	32.96	B	C
ATOM	2063	O	LYS	B	109	-23.572	10.847	25.472	1.00	34.61	B	O
ATOM	2064	N	THR	B	110	-24.705	11.073	23.553	1.00	32.05	B	N
ATOM	2065	CA	THR	B	110	-23.552	11.657	22.864	1.00	31.22	B	C
ATOM	2066	CB	THR	B	110	-23.823	11.876	21.370	1.00	30.12	B	C
ATOM	2067	OG1	THR	B	110	-24.246	10.642	20.793	1.00	30.62	B	O
ATOM	2068	CG2	THR	B	110	-22.561	12.347	20.643	1.00	27.04	B	C
ATOM	2069	C	THR	B	110	-23.070	12.972	23.429	1.00	32.04	B	C
ATOM	2070	O	THR	B	110	-21.864	13.173	23.565	1.00	32.13	B	O
ATOM	2071	N	MSE	B	111	-23.985	13.892	23.729	1.00	33.65	B	N
ATOM	2072	CA	MSE	B	111	-23.539	15.170	24.272	1.00	35.39	B	C

Table 7

ATOM	2073	CB	MSE	B	111	-24.702	16.152	24.432	1.00	35.57	B	C
ATOM	2074	CG	MSE	B	111	-25.256	16.709	23.101	1.00	36.18	B	C
ATOM	2075	SE	MSE	B	111	-23.919	17.266	21.768	1.00	38.26	B	S
ATOM	2076	CE	MSE	B	111	-24.935	16.605	20.194	1.00	36.79	B	C
ATOM	2077	C	MSE	B	111	-22.848	14.896	25.605	1.00	36.50	B	C
ATOM	2078	O	MSE	B	111	-21.787	15.435	25.883	1.00	36.71	B	O
ATOM	2079	N	GLN	B	112	-23.415	14.023	26.416	1.00	36.42	B	N
ATOM	2080	CA	GLN	B	112	-22.748	13.728	27.662	1.00	38.49	B	C
ATOM	2081	CB	GLN	B	112	-23.500	12.626	28.423	1.00	40.44	B	C
ATOM	2082	CG	GLN	B	112	-24.921	13.072	28.719	1.00	42.69	B	C
ATOM	2083	CD	GLN	B	112	-25.666	12.157	29.640	1.00	46.53	B	C
ATOM	2084	OE1	GLN	B	112	-25.648	10.923	29.477	1.00	49.00	B	O
ATOM	2085	NE2	GLN	B	112	-26.351	12.748	30.619	1.00	45.60	B	N
ATOM	2086	C	GLN	B	112	-21.301	13.342	27.396	1.00	38.71	B	C
ATOM	2087	O	GLN	B	112	-20.411	14.007	27.891	1.00	41.03	B	O
ATOM	2088	N	ASN	B	113	-21.044	12.315	26.588	1.00	38.98	B	N
ATOM	2089	CA	ASN	B	113	-19.657	11.895	26.314	1.00	38.19	B	C
ATOM	2090	CB	ASN	B	113	-19.628	10.671	25.409	1.00	40.28	B	C
ATOM	2091	CG	ASN	B	113	-20.357	9.486	26.018	1.00	41.96	B	C
ATOM	2092	OD1	ASN	B	113	-20.801	9.534	27.175	1.00	44.24	B	O
ATOM	2093	ND2	ASN	B	113	-20.482	8.411	25.245	1.00	42.68	B	N
ATOM	2094	C	ASN	B	113	-18.728	12.945	25.741	1.00	36.97	B	C
ATOM	2095	O	ASN	B	113	-17.509	12.778	25.779	1.00	36.15	B	O
ATOM	2096	N	VAL	B	114	-19.284	14.023	25.200	1.00	36.81	B	N
ATOM	2097	CA	VAL	B	114	-18.447	15.095	24.659	1.00	36.93	B	C
ATOM	2098	CB	VAL	B	114	-19.279	16.060	23.730	1.00	37.35	B	C
ATOM	2099	CG1	VAL	B	114	-18.423	17.252	23.284	1.00	34.65	B	C
ATOM	2100	CG2	VAL	B	114	-19.789	15.306	22.510	1.00	35.16	B	C
ATOM	2101	C	VAL	B	114	-17.866	15.883	25.846	1.00	37.17	B	C
ATOM	2102	O	VAL	B	114	-16.730	16.363	25.797	1.00	38.05	B	O
ATOM	2103	N	LEU	B	115	-18.656	16.015	26.908	1.00	38.26	B	N
ATOM	2104	CA	LEU	B	115	-18.239	16.741	28.119	1.00	40.44	B	C
ATOM	2105	CB	LEU	B	115	-19.433	16.993	29.050	1.00	38.81	B	C
ATOM	2106	CG	LEU	B	115	-20.299	18.219	28.759	1.00	38.50	B	C
ATOM	2107	CD1	LEU	B	115	-20.283	18.520	27.289	1.00	38.62	B	C
ATOM	2108	CD2	LEU	B	115	-21.722	17.973	29.243	1.00	39.17	B	C
ATOM	2109	C	LEU	B	115	-17.146	15.996	28.882	1.00	40.81	B	C
ATOM	2110	O	LEU	B	115	-16.289	16.637	29.504	1.00	40.79	B	O
ATOM	2111	N	LYS	B	116	-17.181	14.659	28.821	1.00	41.15	B	N
ATOM	2112	CA	LYS	B	116	-16.188	13.803	29.465	1.00	41.29	B	C
ATOM	2113	CB	LYS	B	116	-16.754	12.416	29.757	1.00	42.21	B	C
ATOM	2114	CG	LYS	B	116	-17.989	12.394	30.643	1.00	45.41	B	C
ATOM	2115	CD	LYS	B	116	-18.607	11.001	30.726	1.00	47.11	B	C
ATOM	2116	CE	LYS	B	116	-19.911	11.005	31.554	1.00	48.48	B	C
ATOM	2117	NZ	LYS	B	116	-20.685	9.706	31.488	1.00	49.52	B	N
ATOM	2118	C	LYS	B	116	-15.006	13.631	28.527	1.00	43.00	B	C
ATOM	2119	O	LYS	B	116	-14.155	12.786	28.766	1.00	44.63	B	O
ATOM	2120	N	ALA	B	117	-14.938	14.409	27.450	1.00	43.52	B	N
ATOM	2121	CA	ALA	B	117	-13.824	14.251	26.520	1.00	43.86	B	C
ATOM	2122	CB	ALA	B	117	-14.204	14.799	25.141	1.00	43.08	B	C
ATOM	2123	C	ALA	B	117	-12.572	14.944	27.041	1.00	44.57	B	C
ATOM	2124	O	ALA	B	117	-12.661	15.955	27.737	1.00	44.82	B	O
ATOM	2125	N	LYS	B	118	-11.407	14.406	26.706	1.00	44.97	B	N
ATOM	2126	CA	LYS	B	118	-10.159	15.001	27.155	1.00	46.86	B	C
ATOM	2127	CB	LYS	B	118	-9.306	13.985	27.927	1.00	47.79	B	C
ATOM	2128	CG	LYS	B	118	-8.683	12.902	27.033	1.00	51.21	B	C
ATOM	2129	CD	LYS	B	118	-7.462	12.226	27.677	1.00	53.17	B	C

Table 7

ATOM	2130	CE	LYS	B	118	-6.236	13.163	27.754	1.00	54.93	B	C
ATOM	2131	NZ	LYS	B	118	-5.011	12.562	28.417	1.00	52.92	B	N
ATOM	2132	C	LYS	B	118	-9.397	15.435	25.929	1.00	47.16	B	C
ATOM	2133	O	LYS	B	118	-8.283	15.949	26.024	1.00	48.47	B	O
ATOM	2134	N	GLU	B	122	-9.993	15.233	24.767	1.00	46.56	B	N
ATOM	2135	CA	GLU	B	122	-9.299	15.586	23.543	1.00	46.06	B	C
ATOM	2136	CB	GLU	B	122	-8.257	14.522	23.251	1.00	47.89	B	C
ATOM	2137	CG	GLU	B	122	-7.380	14.857	22.094	1.00	52.41	B	C
ATOM	2138	CD	GLU	B	122	-6.369	13.776	21.825	1.00	55.79	B	C
ATOM	2139	OE1	GLU	B	122	-5.280	14.117	21.312	1.00	56.69	B	O
ATOM	2140	OE2	GLU	B	122	-6.669	12.591	22.130	1.00	57.43	B	O
ATOM	2141	C	GLU	B	122	-10.229	15.680	22.358	1.00	44.11	B	C
ATOM	2142	O	GLU	B	122	-11.303	15.096	22.379	1.00	43.46	B	O
ATOM	2143	N	VAL	B	123	-9.827	16.415	21.326	1.00	42.81	B	N
ATOM	2144	CA	VAL	B	123	-10.654	16.493	20.120	1.00	42.06	B	C
ATOM	2145	CB	VAL	B	123	-10.765	17.939	19.555	1.00	40.82	B	C
ATOM	2146	CG1	VAL	B	123	-9.421	18.640	19.617	1.00	43.56	B	C
ATOM	2147	CG2	VAL	B	123	-11.256	17.889	18.110	1.00	39.07	B	C
ATOM	2148	C	VAL	B	123	-10.049	15.547	19.074	1.00	41.90	B	C
ATOM	2149	O	VAL	B	123	-8.979	15.818	18.527	1.00	41.35	B	O
ATOM	2150	N	PRO	B	124	-10.741	14.427	18.786	1.00	41.88	B	N
ATOM	2151	CD	PRO	B	124	-12.128	14.256	19.235	1.00	42.70	B	C
ATOM	2152	CA	PRO	B	124	-10.381	13.361	17.839	1.00	43.25	B	C
ATOM	2153	CB	PRO	B	124	-11.658	12.549	17.714	1.00	43.25	B	C
ATOM	2154	CG	PRO	B	124	-12.352	12.803	19.003	1.00	45.41	B	C
ATOM	2155	C	PRO	B	124	-9.894	13.810	16.467	1.00	44.56	B	C
ATOM	2156	O	PRO	B	124	-10.409	14.779	15.875	1.00	43.57	B	O
ATOM	2157	N	ALA	B	125	-8.908	13.068	15.971	1.00	44.50	B	N
ATOM	2158	CA	ALA	B	125	-8.303	13.304	14.674	1.00	45.40	B	C
ATOM	2159	CB	ALA	B	125	-9.197	12.760	13.592	1.00	45.44	B	C
ATOM	2160	C	ALA	B	125	-7.967	14.756	14.373	1.00	45.74	B	C
ATOM	2161	O	ALA	B	125	-7.987	15.165	13.215	1.00	46.41	B	O
ATOM	2162	N	SER	B	126	-7.650	15.536	15.399	1.00	46.52	B	N
ATOM	2163	CA	SER	B	126	-7.302	16.933	15.178	1.00	46.78	B	C
ATOM	2164	CB	SER	B	126	-7.717	17.782	16.385	1.00	48.16	B	C
ATOM	2165	OG	SER	B	126	-7.239	17.234	17.595	1.00	46.04	B	O
ATOM	2166	C	SER	B	126	-5.805	17.080	14.930	1.00	46.88	B	C
ATOM	2167	O	SER	B	126	-5.059	17.466	15.828	1.00	47.34	B	O
ATOM	2168	N	ASN	B	127	-5.375	16.751	13.713	1.00	46.20	B	N
ATOM	2169	CA	ASN	B	127	-3.973	16.861	13.310	1.00	46.10	B	C
ATOM	2170	CB	ASN	B	127	-3.170	15.666	13.811	1.00	43.88	B	C
ATOM	2171	CG	ASN	B	127	-3.776	14.347	13.398	1.00	44.70	B	C
ATOM	2172	OD1	ASN	B	127	-3.823	14.017	12.211	1.00	44.64	B	O
ATOM	2173	ND2	ASN	B	127	-4.253	13.583	14.374	1.00	42.16	B	N
ATOM	2174	C	ASN	B	127	-3.962	16.922	11.792	1.00	46.18	B	C
ATOM	2175	O	ASN	B	127	-4.939	16.549	11.155	1.00	47.30	B	O
ATOM	2176	N	GLU	B	128	-2.871	17.394	11.204	1.00	46.61	B	N
ATOM	2177	CA	GLU	B	128	-2.806	17.529	9.749	1.00	46.65	B	C
ATOM	2178	CB	GLU	B	128	-1.460	18.138	9.320	1.00	46.44	B	C
ATOM	2179	CG	GLU	B	128	-1.115	19.480	9.978	1.00	48.01	B	C
ATOM	2180	CD	GLU	B	128	0.173	20.112	9.422	1.00	48.89	B	C
ATOM	2181	OE1	GLU	B	128	1.056	19.367	8.927	1.00	50.06	B	O
ATOM	2182	OE2	GLU	B	128	0.310	21.353	9.498	1.00	47.62	B	O
ATOM	2183	C	GLU	B	128	-3.035	16.260	8.938	1.00	46.68	B	C
ATOM	2184	O	GLU	B	128	-3.329	16.344	7.750	1.00	46.72	B	O
ATOM	2185	N	LYS	B	129	-2.883	15.094	9.559	1.00	46.27	B	N
ATOM	2186	CA	LYS	B	129	-3.038	13.835	8.835	1.00	46.45	B	C

Table 7

ATOM	2187	CB	LYS	B	129	-2.334	12.692	9.589	1.00	48.64	B C
ATOM	2188	CG	LYS	B	129	-0.853	12.963	9.912	1.00	54.15	B C
ATOM	2189	CD	LYS	B	129	-0.235	11.967	10.943	1.00	56.58	B C
ATOM	2190	CE	LYS	B	129	-0.816	12.115	12.370	1.00	57.82	B C
ATOM	2191	NZ	LYS	B	129	-0.155	11.224	13.386	1.00	57.28	B N
ATOM	2192	C	LYS	B	129	-4.507	13.476	8.633	1.00	44.79	B C
ATOM	2193	O	LYS	B	129	-4.875	12.884	7.623	1.00	42.89	B O
ATOM	2194	N	GLN	B	130	-5.342	13.883	9.577	1.00	43.06	B N
ATOM	2195	CA	GLN	B	130	-6.748	13.548	9.530	1.00	42.65	B C
ATOM	2196	CB	GLN	B	130	-7.067	12.660	10.726	1.00	42.09	B C
ATOM	2197	CG	GLN	B	130	-6.100	11.523	10.957	1.00	40.19	B C
ATOM	2198	CD	GLN	B	130	-6.409	10.808	12.244	1.00	40.30	B C
ATOM	2199	OE1	GLN	B	130	-6.071	11.285	13.330	1.00	42.57	B O
ATOM	2200	NE2	GLN	B	130	-7.071	9.671	12.142	1.00	38.31	B N
ATOM	2201	C	GLN	B	130	-7.715	14.723	9.535	1.00	42.69	B C
ATOM	2202	O	GLN	B	130	-8.848	14.569	9.964	1.00	42.70	B O
ATOM	2203	N	CYS	B	131	-7.294	15.884	9.049	1.00	43.08	B N
ATOM	2204	CA	CYS	B	131	-8.155	17.062	9.070	1.00	42.56	B C
ATOM	2205	CB	CYS	B	131	-8.277	17.532	10.524	1.00	42.09	B C
ATOM	2206	SG	CYS	B	131	-9.029	19.103	10.744	1.00	45.28	B S
ATOM	2207	C	CYS	B	131	-7.524	18.134	8.169	1.00	42.62	B C
ATOM	2208	O	CYS	B	131	-6.300	18.267	8.146	1.00	43.88	B O
ATOM	2209	N	GLY	B	132	-8.349	18.887	7.437	1.00	42.21	B N
ATOM	2210	CA	GLY	B	132	-7.850	19.897	6.510	1.00	41.54	B C
ATOM	2211	C	GLY	B	132	-7.659	21.296	7.056	1.00	41.58	B C
ATOM	2212	O	GLY	B	132	-7.287	22.218	6.313	1.00	41.19	B O
ATOM	2213	N	TRP	B	133	-7.931	21.451	8.351	1.00	41.30	B N
ATOM	2214	CA	TRP	B	133	-7.777	22.721	9.057	1.00	40.88	B C
ATOM	2215	CB	TRP	B	133	-9.036	23.570	8.883	1.00	42.08	B C
ATOM	2216	CG	TRP	B	133	-8.845	25.063	8.993	1.00	45.80	B C
ATOM	2217	CD2	TRP	B	133	-7.689	25.747	9.464	1.00	46.89	B C
ATOM	2218	CE2	TRP	B	133	-8.006	27.131	9.499	1.00	47.54	B C
ATOM	2219	CE3	TRP	B	133	-6.419	25.330	9.871	1.00	48.03	B C
ATOM	2220	CD1	TRP	B	133	-9.794	26.044	8.747	1.00	46.63	B C
ATOM	2221	NE1	TRP	B	133	-9.295	27.280	9.051	1.00	47.17	B N
ATOM	2222	CZ2	TRP	B	133	-7.099	28.092	9.928	1.00	48.09	B C
ATOM	2223	CZ3	TRP	B	133	-5.509	26.290	10.298	1.00	51.84	B C
ATOM	2224	CH2	TRP	B	133	-5.856	27.661	10.327	1.00	50.75	B C
ATOM	2225	C	TRP	B	133	-7.568	22.324	10.520	1.00	40.00	B C
ATOM	2226	O	TRP	B	133	-8.314	22.736	11.416	1.00	40.49	B O
ATOM	2227	N	ALA	B	134	-6.545	21.497	10.737	1.00	38.29	B N
ATOM	2228	CA	ALA	B	134	-6.183	20.961	12.053	1.00	37.19	B C
ATOM	2229	CB	ALA	B	134	-4.953	20.057	11.925	1.00	36.19	B C
ATOM	2230	C	ALA	B	134	-5.927	22.002	13.134	1.00	36.59	B C
ATOM	2231	O	ALA	B	134	-6.131	21.744	14.319	1.00	35.32	B O
ATOM	2232	N	ALA	B	135	-5.459	23.178	12.742	1.00	37.24	B N
ATOM	2233	CA	ALA	B	135	-5.185	24.205	13.749	1.00	36.56	B C
ATOM	2234	CB	ALA	B	135	-4.338	25.340	13.145	1.00	34.19	B C
ATOM	2235	C	ALA	B	135	-6.476	24.759	14.337	1.00	35.47	B C
ATOM	2236	O	ALA	B	135	-6.559	24.941	15.533	1.00	35.43	B O
ATOM	2237	N	ASN	B	136	-7.486	24.985	13.492	1.00	35.46	B N
ATOM	2238	CA	ASN	B	136	-8.780	25.565	13.908	1.00	35.75	B C
ATOM	2239	CB	ASN	B	136	-9.585	25.905	12.646	1.00	34.86	B C
ATOM	2240	CG	ASN	B	136	-9.970	27.378	12.569	1.00	35.39	B C
ATOM	2241	OD1	ASN	B	136	-9.134	28.267	12.773	1.00	35.68	B O
ATOM	2242	ND2	ASN	B	136	-11.238	27.647	12.240	1.00	35.11	B N
ATOM	2243	C	ASN	B	136	-9.639	24.715	14.870	1.00	35.24	B C

Table 7

ATOM	2244	O	ASN	B	136	-10.708	24.249	14.510	1.00	35.73	B	O
ATOM	2245	N	HIS	B	137	-9.198	24.557	16.105	1.00	36.10	B	N
ATOM	2246	CA	HIS	B	137	-9.922	23.714	17.053	1.00	37.66	B	C
ATOM	2247	CB	HIS	B	137	-9.252	22.346	17.074	1.00	37.07	B	C
ATOM	2248	CG	HIS	B	137	-9.768	21.398	16.044	1.00	36.95	B	C
ATOM	2249	CD2	HIS	B	137	-9.297	21.071	14.818	1.00	38.71	B	C
ATOM	2250	ND1	HIS	B	137	-10.904	20.647	16.234	1.00	36.42	B	N
ATOM	2251	CE1	HIS	B	137	-11.111	19.895	15.165	1.00	39.52	B	C
ATOM	2252	NE2	HIS	B	137	-10.151	20.133	14.291	1.00	39.04	B	N
ATOM	2253	C	HIS	B	137	-10.017	24.221	18.498	1.00	37.89	B	C
ATOM	2254	O	HIS	B	137	-9.239	25.080	18.915	1.00	38.82	B	O
ATOM	2255	N	THR	B	138	-10.970	23.668	19.250	1.00	37.67	B	N
ATOM	2256	CA	THR	B	138	-11.159	23.990	20.666	1.00	37.49	B	C
ATOM	2257	CB	THR	B	138	-11.770	25.363	20.875	1.00	39.68	B	C
ATOM	2258	OG1	THR	B	138	-10.879	26.351	20.356	1.00	44.75	B	O
ATOM	2259	CG2	THR	B	138	-11.998	25.619	22.350	1.00	37.59	B	C
ATOM	2260	C	THR	B	138	-12.069	23.000	21.359	1.00	36.11	B	C
ATOM	2261	O	THR	B	138	-13.244	22.904	21.038	1.00	35.87	B	O
ATOM	2262	N	LEU	B	139	-11.525	22.272	22.317	1.00	35.87	B	N
ATOM	2263	CA	LEU	B	139	-12.312	21.313	23.055	1.00	37.89	B	C
ATOM	2264	CB	LEU	B	139	-11.415	20.384	23.867	1.00	37.92	B	C
ATOM	2265	CG	LEU	B	139	-12.189	19.460	24.830	1.00	39.44	B	C
ATOM	2266	CD1	LEU	B	139	-12.970	18.439	23.994	1.00	37.32	B	C
ATOM	2267	CD2	LEU	B	139	-11.226	18.735	25.812	1.00	37.98	B	C
ATOM	2268	C	LEU	B	139	-13.240	22.044	24.017	1.00	39.46	B	C
ATOM	2269	O	LEU	B	139	-14.303	21.510	24.384	1.00	39.55	B	O
ATOM	2270	N	GLU	B	140	-12.840	23.257	24.419	1.00	39.27	B	N
ATOM	2271	CA	GLU	B	140	-13.626	24.048	25.365	1.00	40.03	B	C
ATOM	2272	CB	GLU	B	140	-12.805	25.213	25.930	1.00	42.80	B	C
ATOM	2273	CG	GLU	B	140	-12.672	25.142	27.460	1.00	47.16	B	C
ATOM	2274	CD	GLU	B	140	-12.879	26.502	28.165	1.00	48.88	B	C
ATOM	2275	OE1	GLU	B	140	-12.082	27.461	27.942	1.00	47.95	B	O
ATOM	2276	OE2	GLU	B	140	-13.852	26.595	28.951	1.00	49.01	B	O
ATOM	2277	C	GLU	B	140	-14.895	24.595	24.751	1.00	38.14	B	C
ATOM	2278	O	GLU	B	140	-15.989	24.425	25.304	1.00	38.37	B	O
ATOM	2279	N	GLY	B	141	-14.742	25.261	23.616	1.00	35.73	B	N
ATOM	2280	CA	GLY	B	141	-15.894	25.810	22.926	1.00	35.99	B	C
ATOM	2281	C	GLY	B	141	-16.889	24.731	22.515	1.00	34.73	B	C
ATOM	2282	O	GLY	B	141	-18.094	24.874	22.708	1.00	34.46	B	O
ATOM	2283	N	ALA	B	142	-16.382	23.644	21.948	1.00	34.23	B	N
ATOM	2284	CA	ALA	B	142	-17.243	22.557	21.508	1.00	34.45	B	C
ATOM	2285	CB	ALA	B	142	-16.408	21.417	20.984	1.00	34.48	B	C
ATOM	2286	C	ALA	B	142	-18.023	22.120	22.718	1.00	35.18	B	C
ATOM	2287	O	ALA	B	142	-19.268	22.053	22.707	1.00	36.50	B	O
ATOM	2288	N	GLN	B	143	-17.269	21.856	23.777	1.00	34.65	B	N
ATOM	2289	CA	GLN	B	143	-17.826	21.427	25.042	1.00	34.44	B	C
ATOM	2290	CB	GLN	B	143	-16.685	21.156	26.029	1.00	35.41	B	C
ATOM	2291	CG	GLN	B	143	-16.453	19.682	26.292	1.00	38.56	B	C
ATOM	2292	CD	GLN	B	143	-15.114	19.406	26.940	1.00	41.66	B	C
ATOM	2293	OE1	GLN	B	143	-14.666	20.170	27.801	1.00	43.66	B	O
ATOM	2294	NE2	GLN	B	143	-14.468	18.304	26.544	1.00	41.65	B	N
ATOM	2295	C	GLN	B	143	-18.839	22.428	25.610	1.00	33.14	B	C
ATOM	2296	O	GLN	B	143	-19.825	22.015	26.219	1.00	33.32	B	O
ATOM	2297	N	ASN	B	144	-18.616	23.728	25.409	1.00	32.04	B	N
ATOM	2298	CA	ASN	B	144	-19.570	24.731	25.899	1.00	30.88	B	C
ATOM	2299	CB	ASN	B	144	-19.107	26.160	25.617	1.00	31.88	B	C
ATOM	2300	CG	ASN	B	144	-17.960	26.623	26.504	1.00	35.02	B	C

Table 7

ATOM	2301	OD1	ASN	B	144	-17.607	25.991	27.515	1.00	34.27	B O
ATOM	2302	ND2	ASN	B	144	-17.380	27.772	26.130	1.00	36.05	B N
ATOM	2303	C	ASN	B	144	-20.880	24.546	25.151	1.00	30.04	B C
ATOM	2304	O	ASN	B	144	-21.961	24.459	25.751	1.00	29.19	B O
ATOM	2305	N	LEU	B	145	-20.779	24.513	23.823	1.00	29.64	B N
ATOM	2306	CA	LEU	B	145	-21.962	24.344	22.989	1.00	29.57	B C
ATOM	2307	CB	LEU	B	145	-21.563	24.257	21.505	1.00	31.35	B C
ATOM	2308	CG	LEU	B	145	-20.793	25.459	20.972	1.00	30.52	B C
ATOM	2309	CD1	LEU	B	145	-20.387	25.256	19.546	1.00	29.61	B C
ATOM	2310	CD2	LEU	B	145	-21.672	26.672	21.090	1.00	32.95	B C
ATOM	2311	C	LEU	B	145	-22.734	23.095	23.408	1.00	28.69	B C
ATOM	2312	O	LEU	B	145	-23.960	23.131	23.565	1.00	27.84	B O
ATOM	2313	N	ALA	B	146	-22.014	21.998	23.621	1.00	28.66	B N
ATOM	2314	CA	ALA	B	146	-22.665	20.760	24.007	1.00	29.92	B C
ATOM	2315	CB	ALA	B	146	-21.659	19.643	24.064	1.00	28.64	B C
ATOM	2316	C	ALA	B	146	-23.386	20.895	25.339	1.00	32.76	B C
ATOM	2317	O	ALA	B	146	-24.552	20.483	25.481	1.00	33.09	B O
ATOM	2318	N	ARG	B	147	-22.700	21.469	26.323	1.00	34.15	B N
ATOM	2319	CA	ARG	B	147	-23.287	21.638	27.648	1.00	34.56	B C
ATOM	2320	CB	ARG	B	147	-22.285	22.331	28.581	1.00	37.85	B C
ATOM	2321	CG	ARG	B	147	-22.797	22.618	29.985	1.00	42.36	B C
ATOM	2322	CD	ARG	B	147	-21.672	23.202	30.852	1.00	45.78	B C
ATOM	2323	NE	ARG	B	147	-20.689	22.174	31.217	1.00	49.05	B N
ATOM	2324	CZ	ARG	B	147	-19.481	22.045	30.667	1.00	50.30	B C
ATOM	2325	NH1	ARG	B	147	-19.086	22.897	29.712	1.00	50.62	B N
ATOM	2326	NH2	ARG	B	147	-18.677	21.050	31.056	1.00	49.29	B N
ATOM	2327	C	ARG	B	147	-24.553	22.464	27.535	1.00	33.55	B C
ATOM	2328	O	ARG	B	147	-25.589	22.099	28.074	1.00	34.02	B O
ATOM	2329	N	ALA	B	148	-24.461	23.577	26.822	1.00	32.49	B N
ATOM	2330	CA	ALA	B	148	-25.595	24.477	26.629	1.00	32.54	B C
ATOM	2331	CB	ALA	B	148	-25.147	25.691	25.825	1.00	32.12	B C
ATOM	2332	C	ALA	B	148	-26.775	23.798	25.928	1.00	32.90	B C
ATOM	2333	O	ALA	B	148	-27.937	24.050	26.270	1.00	33.65	B O
ATOM	2334	N	PHE	B	149	-26.467	22.962	24.933	1.00	31.11	B N
ATOM	2335	CA	PHE	B	149	-27.481	22.227	24.185	1.00	28.55	B C
ATOM	2336	CB	PHE	B	149	-26.801	21.470	23.006	1.00	27.73	B C
ATOM	2337	CG	PHE	B	149	-27.759	20.850	22.032	1.00	26.80	B C
ATOM	2338	CD1	PHE	B	149	-28.528	21.650	21.176	1.00	28.34	B C
ATOM	2339	CD2	PHE	B	149	-27.958	19.484	22.017	1.00	26.38	B C
ATOM	2340	CE1	PHE	B	149	-29.492	21.085	20.330	1.00	25.68	B C
ATOM	2341	CE2	PHE	B	149	-28.913	18.901	21.178	1.00	27.60	B C
ATOM	2342	CZ	PHE	B	149	-29.689	19.705	20.334	1.00	26.70	B C
ATOM	2343	C	PHE	B	149	-28.116	21.269	25.213	1.00	28.81	B C
ATOM	2344	O	PHE	B	149	-29.330	21.197	25.351	1.00	27.95	B O
ATOM	2345	N	LEU	B	150	-27.273	20.563	25.955	1.00	29.19	B N
ATOM	2346	CA	LEU	B	150	-27.727	19.644	26.988	1.00	32.05	B C
ATOM	2347	CB	LEU	B	150	-26.532	19.070	27.720	1.00	33.53	B C
ATOM	2348	CG	LEU	B	150	-26.231	17.605	27.495	1.00	35.64	B C
ATOM	2349	CD1	LEU	B	150	-25.222	17.202	28.573	1.00	36.82	B C
ATOM	2350	CD2	LEU	B	150	-27.518	16.761	27.584	1.00	34.29	B C
ATOM	2351	C	LEU	B	150	-28.655	20.282	28.031	1.00	33.34	B C
ATOM	2352	O	LEU	B	150	-29.710	19.724	28.381	1.00	32.13	B O
ATOM	2353	N	ASP	B	151	-28.264	21.451	28.528	1.00	33.75	B N
ATOM	2354	CA	ASP	B	151	-29.065	22.137	29.537	1.00	35.94	B C
ATOM	2355	CB	ASP	B	151	-28.280	23.350	30.084	1.00	38.86	B C
ATOM	2356	CG	ASP	B	151	-27.069	22.915	30.926	1.00	42.94	B C
ATOM	2357	OD1	ASP	B	151	-26.817	21.692	30.992	1.00	45.15	B O

Table 7

ATOM	2358	OD2	ASP	B	151	-26.370	23.766	31.528	1.00	46.46	B O
ATOM	2359	C	ASP	B	151	-30.497	22.523	29.116	1.00	35.45	B C
ATOM	2360	O	ASP	B	151	-31.275	23.029	29.930	1.00	34.35	B O
ATOM	2361	N	LYS	B	152	-30.846	22.285	27.854	1.00	34.68	B N
ATOM	2362	CA	LYS	B	152	-32.206	22.575	27.371	1.00	33.68	B C
ATOM	2363	CB	LYS	B	152	-32.182	23.718	26.352	1.00	31.92	B C
ATOM	2364	CG	LYS	B	152	-32.425	25.064	26.982	1.00	31.98	B C
ATOM	2365	CD	LYS	B	152	-32.226	26.183	25.969	1.00	33.98	B C
ATOM	2366	CE	LYS	B	152	-32.195	27.549	26.654	1.00	34.59	B C
ATOM	2367	NZ	LYS	B	152	-31.596	28.595	25.760	1.00	35.59	B N
ATOM	2368	C	LYS	B	152	-32.837	21.308	26.765	1.00	31.29	B C
ATOM	2369	O	LYS	B	152	-33.767	21.351	25.948	1.00	29.83	B O
ATOM	2370	N	ARG	B	153	-32.301	20.178	27.198	1.00	29.59	B N
ATOM	2371	CA	ARG	B	153	-32.756	18.878	26.764	1.00	28.96	B C
ATOM	2372	CB	ARG	B	153	-32.169	17.813	27.688	1.00	27.54	B C
ATOM	2373	CG	ARG	B	153	-32.774	16.435	27.496	1.00	28.55	B C
ATOM	2374	CD	ARG	B	153	-32.202	15.724	26.255	1.00	25.26	B C
ATOM	2375	NE	ARG	B	153	-32.897	14.462	26.036	1.00	22.38	B N
ATOM	2376	CZ	ARG	B	153	-34.133	14.362	25.569	1.00	20.68	B C
ATOM	2377	NH1	ARG	B	153	-34.815	15.454	25.259	1.00	20.91	B N
ATOM	2378	NH2	ARG	B	153	-34.694	13.170	25.415	1.00	19.87	B N
ATOM	2379	C	ARG	B	153	-34.290	18.757	26.724	1.00	29.54	B C
ATOM	2380	O	ARG	B	153	-34.872	18.399	25.691	1.00	29.75	B O
ATOM	2381	N	ALA	B	154	-34.938	19.063	27.841	1.00	29.45	B N
ATOM	2382	CA	ALA	B	154	-36.395	18.978	27.971	1.00	29.38	B C
ATOM	2383	CB	ALA	B	154	-36.835	19.651	29.297	1.00	29.91	B C
ATOM	2384	C	ALA	B	154	-37.139	19.619	26.809	1.00	29.59	B C
ATOM	2385	O	ALA	B	154	-38.229	19.190	26.421	1.00	27.19	B O
ATOM	2386	N	GLU	B	155	-36.506	20.648	26.273	1.00	30.38	B N
ATOM	2387	CA	GLU	B	155	-36.989	21.478	25.174	1.00	33.39	B C
ATOM	2388	CB	GLU	B	155	-36.289	22.828	25.357	1.00	34.39	B C
ATOM	2389	CG	GLU	B	155	-36.894	23.988	24.708	1.00	39.70	B C
ATOM	2390	CD	GLU	B	155	-36.103	25.231	25.030	1.00	43.71	B C
ATOM	2391	OE1	GLU	B	155	-35.813	25.407	26.246	1.00	44.91	B O
ATOM	2392	OE2	GLU	B	155	-35.776	26.013	24.084	1.00	43.88	B O
ATOM	2393	C	GLU	B	155	-36.726	20.961	23.726	1.00	31.95	B C
ATOM	2394	O	GLU	B	155	-37.241	21.530	22.764	1.00	31.93	B O
ATOM	2395	N	TRP	B	156	-35.926	19.906	23.573	1.00	29.01	B N
ATOM	2396	CA	TRP	B	156	-35.553	19.415	22.238	1.00	27.80	B C
ATOM	2397	CB	TRP	B	156	-34.629	18.202	22.362	1.00	25.44	B C
ATOM	2398	CG	TRP	B	156	-33.284	18.503	22.956	1.00	23.49	B C
ATOM	2399	CD2	TRP	B	156	-32.203	17.574	23.121	1.00	22.98	B C
ATOM	2400	CE2	TRP	B	156	-31.110	18.293	23.649	1.00	23.29	B C
ATOM	2401	CE3	TRP	B	156	-32.056	16.205	22.873	1.00	20.79	B C
ATOM	2402	CD1	TRP	B	156	-32.817	19.714	23.382	1.00	22.34	B C
ATOM	2403	NE1	TRP	B	156	-31.509	19.598	23.798	1.00	24.53	B N
ATOM	2404	CZ2	TRP	B	156	-29.884	17.686	23.928	1.00	24.37	B C
ATOM	2405	CZ3	TRP	B	156	-30.838	15.602	23.150	1.00	22.60	B C
ATOM	2406	CH2	TRP	B	156	-29.770	16.337	23.672	1.00	23.34	B C
ATOM	2407	C	TRP	B	156	-36.617	19.096	21.188	1.00	27.42	B C
ATOM	2408	O	TRP	B	156	-36.434	19.444	20.007	1.00	27.17	B O
ATOM	2409	N	SER	B	157	-37.691	18.422	21.593	1.00	26.04	B N
ATOM	2410	CA	SER	B	157	-38.758	18.063	20.676	1.00	27.11	B C
ATOM	2411	CB	SER	B	157	-39.529	16.852	21.194	1.00	28.30	B C
ATOM	2412	OG	SER	B	157	-40.511	17.218	22.134	1.00	29.53	B O
ATOM	2413	C	SER	B	157	-39.731	19.211	20.395	1.00	28.46	B C
ATOM	2414	O	SER	B	157	-40.709	19.046	19.669	1.00	27.43	B O

Table 7

ATOM	2415	N	GLU	B	158	-39.474	20.372	20.979	1.00	29.70	B	N
ATOM	2416	CA	GLU	B	158	-40.327	21.526	20.710	1.00	31.08	B	C
ATOM	2417	CB	GLU	B	158	-40.543	22.372	21.969	1.00	32.92	B	C
ATOM	2418	CG	GLU	B	158	-41.182	23.741	21.703	1.00	37.25	B	C
ATOM	2419	CD	GLU	B	158	-41.106	24.676	22.930	1.00	40.88	B	C
ATOM	2420	OE1	GLU	B	158	-39.988	24.800	23.475	1.00	39.45	B	O
ATOM	2421	OE2	GLU	B	158	-42.146	25.282	23.341	1.00	41.11	B	O
ATOM	2422	C	GLU	B	158	-39.555	22.333	19.674	1.00	29.99	B	C
ATOM	2423	O	GLU	B	158	-38.613	23.053	20.020	1.00	29.56	B	O
ATOM	2424	N	VAL	B	159	-39.963	22.194	18.410	1.00	29.21	B	N
ATOM	2425	CA	VAL	B	159	-39.325	22.868	17.292	1.00	27.77	B	C
ATOM	2426	CB	VAL	B	159	-39.537	22.069	15.986	1.00	27.16	B	C
ATOM	2427	CG1	VAL	B	159	-38.837	22.764	14.815	1.00	26.65	B	C
ATOM	2428	CG2	VAL	B	159	-38.990	20.662	16.162	1.00	26.11	B	C
ATOM	2429	C	VAL	B	159	-39.817	24.293	17.102	1.00	29.85	B	C
ATOM	2430	O	VAL	B	159	-39.068	25.176	16.643	1.00	27.39	B	O
ATOM	2431	N	GLY	B	160	-41.067	24.532	17.484	1.00	31.09	B	N
ATOM	2432	CA	GLY	B	160	-41.634	25.857	17.316	1.00	35.70	B	C
ATOM	2433	C	GLY	B	160	-42.699	25.721	16.257	1.00	38.88	B	C
ATOM	2434	O	GLY	B	160	-43.439	26.646	15.947	1.00	39.03	B	O
ATOM	2435	N	ALA	B	161	-42.768	24.506	15.724	1.00	43.32	B	N
ATOM	2436	CA	ALA	B	161	-43.722	24.089	14.699	1.00	46.07	B	C
ATOM	2437	CB	ALA	B	161	-45.134	24.606	15.019	1.00	47.21	B	C
ATOM	2438	C	ALA	B	161	-43.271	24.582	13.354	1.00	47.21	B	C
ATOM	2439	O	ALA	B	161	-42.597	25.643	13.320	1.00	48.07	B	O
ATOM	2440	OXT	ALA	B	161	-43.610	23.891	12.366	1.00	48.49	B	O
TER	2441		ALA	B	161						B	
ATOM	2442	CB	MET	D	1	-17.872	14.266	8.577	1.00	42.42	D	C
ATOM	2443	CG	MET	D	1	-17.092	13.497	9.616	1.00	42.84	D	C
ATOM	2444	SD	MET	D	1	-16.184	14.652	10.705	1.00	46.62	D	S
ATOM	2445	CE	MET	D	1	-15.118	15.494	9.452	1.00	42.05	D	C
ATOM	2446	C	MET	D	1	-19.367	12.228	8.707	1.00	40.85	D	C
ATOM	2447	O	MET	D	1	-20.178	12.305	9.652	1.00	41.63	D	O
ATOM	2448	OXT	MET	D	1	-18.836	11.152	8.352	1.00	41.15	D	O
ATOM	2449	N	MET	D	1	-20.216	14.437	7.819	1.00	40.90	D	N
ATOM	2450	CA	MET	D	1	-19.039	13.511	7.928	1.00	41.74	D	C
TER	2451		MET	D	1						D	
ATOM	2452	CB	MET	E	1	-27.935	21.935	2.598	1.00	32.83	E	C
ATOM	2453	CG	MET	E	1	-29.090	22.830	2.295	1.00	34.12	E	C
ATOM	2454	SD	MET	E	1	-28.529	24.445	1.666	1.00	38.39	E	S
ATOM	2455	CE	MET	E	1	-28.809	25.488	3.123	1.00	32.10	E	C
ATOM	2456	C	MET	E	1	-29.093	19.866	1.732	1.00	30.90	E	C
ATOM	2457	O	MET	E	1	-28.461	19.170	0.934	1.00	30.23	E	O
ATOM	2458	OXT	MET	E	1	-30.312	20.092	1.612	1.00	30.48	E	O
ATOM	2459	N	MET	E	1	-27.085	19.716	3.208	1.00	31.03	E	N
ATOM	2460	CA	MET	E	1	-28.318	20.483	2.909	1.00	32.40	E	C
TER	2461		MET	E	1						E	
ATOM	2462	O	HOH	W	1	-18.691	17.008	7.101	1.00	34.53	W	O
ATOM	2463	O	HOH	W	2	-10.970	6.783	4.133	1.00	22.98	W	O
ATOM	2464	O	HOH	W	3	-11.366	16.784	6.229	1.00	47.44	W	O
ATOM	2465	O	HOH	W	4	-13.884	18.546	8.580	1.00	55.18	W	O
ATOM	2466	O	HOH	W	5	-11.865	14.956	7.741	1.00	47.76	W	O
ATOM	2467	O	HOH	W	6	-2.563	18.848	2.354	1.00	41.69	W	O
ATOM	2468	O	HOH	W	7	-6.002	16.740	-6.265	1.00	31.43	W	O
ATOM	2469	O	HOH	W	8	-17.714	2.181	5.693	1.00	41.03	W	O
ATOM	2470	O	HOH	W	9	-24.056	3.100	9.834	1.00	27.21	W	O
ATOM	2471	O	HOH	W	10	-23.177	4.980	12.662	1.00	33.29	W	O

Table 7

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ATOM   2472  O   HOH W  11     -28.698   1.819   9.196  1.00 30.89      W    O
ATOM   2473  O   HOH W  12     -30.161  -0.394  12.216  1.00 34.61      W    O
ATOM   2474  O   HOH W  13     -18.567   9.243   5.363  1.00 28.38      W    O
ATOM   2475  O   HOH W  14     -23.400  15.143   1.982  1.00 26.12      W    O
ATOM   2476  O   HOH W  15      -5.714  26.672   5.936  1.00 32.32      W    O
ATOM   2477  O   HOH W  16     -14.375  33.316  -2.545  1.00 29.25      W    O
ATOM   2478  O   HOH W  17     -26.228  21.858   5.341  1.00 38.45      W    O
ATOM   2479  O   HOH W  18     -25.088  19.978   6.220  1.00 27.28      W    O
ATOM   2480  O   HOH W  19     -26.112  14.683   7.520  1.00 23.46      W    O
ATOM   2481  O   HOH W  20     -32.561  15.897  -5.361  1.00 75.10      W    O
ATOM   2482  O   HOH W  21     -32.122  20.895   3.521  1.00 19.84      W    O
ATOM   2483  O   HOH W  22     -36.600   1.920  14.302  1.00 37.14      W    O
ATOM   2484  O   HOH W  23     -38.467   9.664  12.834  1.00 31.56      W    O
TER    2485      HOH W  23                                              W
ATOM   2486 ZN   ZN  C 201     -28.032  29.540   4.830  1.00 33.02      C    N
ATOM   2487 ZN   ZN  C 202     -11.473  18.614  10.594  1.00 49.72      C    N
TER    2488      ZN  C 202                                              C
END
```

Table 7 10342-012-999

Table 8

```
REMARK coordinates from restrained individual B-factor refinement
REMARK refinement resolution: 30.0 - 2.1 A
REMARK starting r= 0.2060 free_r= 0.2350
REMARK final    r= 0.2063 free_r= 0.2357
REMARK B rmsd for bonded mainchain atoms=  2.989  target= 2.0
REMARK B rmsd for bonded sidechain atoms=  4.808  target= 2.5
REMARK B rmsd for angle mainchain atoms=  3.730  target= 2.5
REMARK B rmsd for angle sidechain atoms=  6.561  target= 3.0
REMARK wa= 1.52671
REMARK rweight=5E-02
REMARK target= mlf  steps= 15
REMARK sg= P4(2)2(1)2 a= 129.669 b= 129.669 c= 53.770 alpha= 90 beta= 90 gamma=
90
REMARK parameter file 1  : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2  : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3  : mse.par
REMARK parameter file 4  : ion.param
REMARK molecular structure file: 80d1c1_3.psf
REMARK input coordinates: 80d1c1_3bmin.pdb
REMARK reflection file= 80d1c1_semet_high.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 2.1
REMARK initial B-factor correction applied to fobs :
REMARK   B11=  -0.145 B22=  -0.145 B33=   0.290
REMARK   B12=   0.000 B13=   0.000 B23=   0.000
REMARK B-factor correction applied to coordinate array B:   -0.007
REMARK bulk solvent: (Mask) density level= 0.459184 e/A^3, B-factor= 66.7914 A^2
REMARK reflections with |Fobs|/sigma_F < 2.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range:    27342 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0):   748 (   2.7 % )
REMARK number of reflections rejected:                        1065 (   3.9 % )
REMARK total number of reflections used:                     25529 (  93.4 % )
REMARK number of reflections in working set:                 22996 (  84.1 % )
REMARK number of reflections in test set:                     2533 (   9.3 % )
REMARK FILENAME="80d1c1_3bbind.pdb"
REMARK DATE:Nov-07-2000  11:34:22       created by user: hlewis
REMARK Written by CNX VERSION:2000
ATOM      1  CB  LEU A   6     -21.775  51.874   5.446  1.00 60.91      A    C
ATOM      2  CG  LEU A   6     -20.781  52.611   6.352  1.00 64.36      A    C
ATOM      3  CD1 LEU A   6     -19.760  51.622   6.902  1.00 64.10      A    C
ATOM      4  CD2 LEU A   6     -20.078  53.712   5.573  1.00 66.98      A    C
ATOM      5  C   LEU A   6     -22.519  52.688   3.201  1.00 55.60      A    C
ATOM      6  O   LEU A   6     -22.263  53.733   2.602  1.00 58.64      A    O
ATOM      7  N   LEU A   6     -24.195  52.214   4.974  1.00 59.18      A    N
ATOM      8  CA  LEU A   6     -22.819  52.717   4.698  1.00 58.42      A    C
ATOM      9  N   LEU A   7     -22.554  51.501   2.597  1.00 48.27      A    N
ATOM     10  CA  LEU A   7     -22.269  51.380   1.167  1.00 41.17      A    C
ATOM     11  CB  LEU A   7     -22.374  49.918   0.734  1.00 34.78      A    C
ATOM     12  CG  LEU A   7     -21.348  49.007   1.421  1.00 34.81      A    C
ATOM     13  CD1 LEU A   7     -21.469  47.602   0.866  1.00 33.00      A    C
ATOM     14  CD2 LEU A   7     -19.922  49.543   1.202  1.00 26.97      A    C
ATOM     15  C   LEU A   7     -23.166  52.268   0.298  1.00 40.76      A    C
ATOM     16  O   LEU A   7     -24.373  52.376   0.525  1.00 35.75      A    O
ATOM     17  N   ASP A   8     -22.559  52.912  -0.696  1.00 41.19      A    N
ATOM     18  CA  ASP A   8     -23.281  53.809  -1.590  1.00 42.38      A    C
ATOM     19  CB  ASP A   8     -22.334  54.355  -2.663  1.00 49.03      A    C
```

Table 8

ATOM	20	CG	ASP	A	8	-21.289	55.303	-2.089	1.00	58.78	A C
ATOM	21	OD1	ASP	A	8	-20.417	55.766	-2.858	1.00	62.80	A O
ATOM	22	OD2	ASP	A	8	-21.345	55.587	-0.871	1.00	59.94	A O
ATOM	23	C	ASP	A	8	-24.500	53.181	-2.257	1.00	40.52	A C
ATOM	24	O	ASP	A	8	-25.518	53.848	-2.424	1.00	38.56	A O
ATOM	25	N	SER	A	9	-24.390	51.909	-2.636	1.00	35.92	A N
ATOM	26	CA	SER	A	9	-25.477	51.185	-3.296	1.00	40.80	A C
ATOM	27	CB	SER	A	9	-25.083	49.717	-3.506	1.00	41.98	A C
ATOM	28	OG	SER	A	9	-23.740	49.603	-3.942	1.00	58.49	A O
ATOM	29	C	SER	A	9	-26.762	51.219	-2.468	1.00	39.76	A C
ATOM	30	O	SER	A	9	-27.865	51.200	-3.016	1.00	40.86	A O
ATOM	31	N	PHE	A	10	-26.599	51.266	-1.149	1.00	37.07	A N
ATOM	32	CA	PHE	A	10	-27.715	51.261	-0.209	1.00	40.85	A C
ATOM	33	CB	PHE	A	10	-27.232	50.804	1.176	1.00	39.42	A C
ATOM	34	CG	PHE	A	10	-26.560	49.453	1.184	1.00	42.61	A C
ATOM	35	CD1	PHE	A	10	-25.771	49.071	2.262	1.00	39.38	A C
ATOM	36	CD2	PHE	A	10	-26.704	48.570	0.111	1.00	41.80	A C
ATOM	37	CE1	PHE	A	10	-25.129	47.833	2.273	1.00	43.14	A C
ATOM	38	CE2	PHE	A	10	-26.066	47.331	0.116	1.00	43.44	A C
ATOM	39	CZ	PHE	A	10	-25.276	46.965	1.201	1.00	41.77	A C
ATOM	40	C	PHE	A	10	-28.403	52.607	-0.045	1.00	43.33	A C
ATOM	41	O	PHE	A	10	-29.416	52.697	0.649	1.00	45.98	A O
ATOM	42	N	LYS	A	11	-27.865	53.650	-0.668	1.00	41.17	A N
ATOM	43	CA	LYS	A	11	-28.444	54.986	-0.521	1.00	41.81	A C
ATOM	44	CB	LYS	A	11	-27.328	55.987	-0.212	1.00	44.79	A C
ATOM	45	CG	LYS	A	11	-26.439	55.560	0.954	1.00	51.46	A C
ATOM	46	CD	LYS	A	11	-25.222	56.464	1.081	1.00	60.48	A C
ATOM	47	CE	LYS	A	11	-24.290	55.995	2.190	1.00	65.01	A C
ATOM	48	NZ	LYS	A	11	-23.055	56.829	2.261	1.00	68.66	A N
ATOM	49	C	LYS	A	11	-29.249	55.458	-1.731	1.00	37.88	A C
ATOM	50	O	LYS	A	11	-29.640	56.618	-1.815	1.00	39.72	A O
ATOM	51	N	VAL	A	12	-29.490	54.556	-2.669	1.00	33.17	A N
ATOM	52	CA	VAL	A	12	-30.251	54.886	-3.858	1.00	32.12	A C
ATOM	53	CB	VAL	A	12	-29.368	54.741	-5.142	1.00	33.39	A C
ATOM	54	CG1	VAL	A	12	-28.584	53.458	-5.100	1.00	30.99	A C
ATOM	55	CG2	VAL	A	12	-30.221	54.778	-6.373	1.00	38.16	A C
ATOM	56	C	VAL	A	12	-31.454	53.955	-3.890	1.00	30.51	A C
ATOM	57	O	VAL	A	12	-31.341	52.768	-3.567	1.00	30.91	A O
ATOM	58	N	ASP	A	13	-32.611	54.503	-4.255	1.00	28.54	A N
ATOM	59	CA	ASP	A	13	-33.864	53.744	-4.299	1.00	25.12	A C
ATOM	60	CB	ASP	A	13	-35.051	54.706	-4.202	1.00	30.36	A C
ATOM	61	CG	ASP	A	13	-36.403	53.986	-4.179	1.00	35.44	A C
ATOM	62	OD1	ASP	A	13	-37.431	54.691	-4.074	1.00	41.34	A O
ATOM	63	OD2	ASP	A	13	-36.447	52.734	-4.265	1.00	31.99	A O
ATOM	64	C	ASP	A	13	-34.000	52.886	-5.550	1.00	24.60	A C
ATOM	65	O	ASP	A	13	-34.298	53.382	-6.650	1.00	25.78	A O
ATOM	66	N	HIS	A	14	-33.814	51.587	-5.383	1.00	23.43	A N
ATOM	67	CA	HIS	A	14	-33.902	50.676	-6.516	1.00	23.52	A C
ATOM	68	CB	HIS	A	14	-33.445	49.274	-6.097	1.00	24.30	A C
ATOM	69	CG	HIS	A	14	-31.981	49.185	-5.766	1.00	22.72	A C
ATOM	70	CD2	HIS	A	14	-30.969	48.514	-6.368	1.00	23.17	A C
ATOM	71	ND1	HIS	A	14	-31.416	49.839	-4.692	1.00	22.43	A N
ATOM	72	CE1	HIS	A	14	-30.122	49.574	-4.644	1.00	21.04	A C
ATOM	73	NE2	HIS	A	14	-29.825	48.771	-5.649	1.00	16.56	A N
ATOM	74	C	HIS	A	14	-35.304	50.623	-7.155	1.00	23.94	A C
ATOM	75	O	HIS	A	14	-35.435	50.252	-8.323	1.00	29.01	A O
ATOM	76	N	THR	A	15	-36.348	51.017	-6.428	1.00	25.08	A N

Table 8

ATOM	77	CA	THR	A	15	-37.688	50.980	-7.015	1.00	27.82	A C
ATOM	78	CB	THR	A	15	-38.827	51.115	-5.964	1.00	31.02	A C
ATOM	79	OG1	THR	A	15	-38.894	52.468	-5.501	1.00	27.65	A O
ATOM	80	CG2	THR	A	15	-38.599	50.173	-4.790	1.00	27.86	A C
ATOM	81	C	THR	A	15	-37.884	52.089	-8.036	1.00	28.95	A C
ATOM	82	O	THR	A	15	-38.842	52.052	-8.817	1.00	26.57	A O
ATOM	83	N	LYS	A	16	-36.984	53.069	-8.026	1.00	27.48	A N
ATOM	84	CA	LYS	A	16	-37.058	54.196	-8.954	1.00	30.07	A C
ATOM	85	CB	LYS	A	16	-36.707	55.504	-8.247	1.00	31.72	A C
ATOM	86	CG	LYS	A	16	-37.728	56.031	-7.249	1.00	39.08	A C
ATOM	87	CD	LYS	A	16	-37.201	57.323	-6.627	1.00	42.77	A C
ATOM	88	CE	LYS	A	16	-38.134	57.897	-5.569	1.00	48.29	A C
ATOM	89	NZ	LYS	A	16	-37.437	58.973	-4.803	1.00	48.85	A N
ATOM	90	C	LYS	A	16	-36.146	54.076	-10.173	1.00	30.85	A C
ATOM	91	O	LYS	A	16	-36.128	54.980	-11.018	1.00	28.45	A O
ATOM	92	N	MSE	A	17	-35.401	52.977	-10.276	1.00	26.04	A N
ATOM	93	CA	MSE	A	17	-34.472	52.796	-11.390	1.00	23.85	A C
ATOM	94	CB	MSE	A	17	-33.336	51.848	-11.002	1.00	23.42	A C
ATOM	95	CG	MSE	A	17	-32.469	52.305	-9.859	1.00	26.19	A C
ATOM	96	SE	MSE	A	17	-31.218	50.868	-9.409	1.00	33.71	A S
ATOM	97	CE	MSE	A	17	-30.211	51.773	-8.033	1.00	20.55	A C
ATOM	98	C	MSE	A	17	-35.072	52.241	-12.662	1.00	23.54	A C
ATOM	99	O	MSE	A	17	-35.830	51.287	-12.627	1.00	26.20	A O
ATOM	100	N	ASN	A	18	-34.695	52.822	-13.792	1.00	26.22	A N
ATOM	101	CA	ASN	A	18	-35.144	52.333	-15.084	1.00	24.12	A C
ATOM	102	CB	ASN	A	18	-35.220	53.483	-16.088	1.00	35.30	A C
ATOM	103	CG	ASN	A	18	-36.205	54.565	-15.667	1.00	43.49	A C
ATOM	104	OD1	ASN	A	18	-37.407	54.318	-15.569	1.00	50.95	A O
ATOM	105	ND2	ASN	A	18	-35.700	55.770	-15.416	1.00	48.96	A N
ATOM	106	C	ASN	A	18	-34.062	51.340	-15.522	1.00	25.59	A C
ATOM	107	O	ASN	A	18	-32.936	51.364	-15.008	1.00	25.53	A O
ATOM	108	N	ALA	A	19	-34.397	50.465	-16.457	1.00	22.27	A N
ATOM	109	CA	ALA	A	19	-33.445	49.482	-16.952	1.00	25.10	A C
ATOM	110	CB	ALA	A	19	-33.400	48.289	-16.025	1.00	20.89	A C
ATOM	111	C	ALA	A	19	-33.930	49.051	-18.315	1.00	20.72	A C
ATOM	112	O	ALA	A	19	-35.133	49.017	-18.547	1.00	22.07	A O
ATOM	113	N	PRO	A	20	-33.011	48.780	-19.255	1.00	21.22	A N
ATOM	114	CD	PRO	A	20	-33.427	48.191	-20.541	1.00	21.02	A C
ATOM	115	CA	PRO	A	20	-31.543	48.854	-19.148	1.00	20.73	A C
ATOM	116	CB	PRO	A	20	-31.053	48.262	-20.472	1.00	22.34	A C
ATOM	117	CG	PRO	A	20	-32.203	47.410	-20.952	1.00	23.31	A C
ATOM	118	C	PRO	A	20	-31.144	50.329	-19.053	1.00	22.52	A C
ATOM	119	O	PRO	A	20	-31.745	51.153	-19.726	1.00	22.62	A O
ATOM	120	N	ALA	A	21	-30.134	50.664	-18.249	1.00	19.15	A N
ATOM	121	CA	ALA	A	21	-29.704	52.053	-18.113	1.00	18.22	A C
ATOM	122	CB	ALA	A	21	-30.734	52.838	-17.311	1.00	15.99	A C
ATOM	123	C	ALA	A	21	-28.329	52.175	-17.442	1.00	21.54	A C
ATOM	124	O	ALA	A	21	-27.892	51.263	-16.724	1.00	17.95	A O
ATOM	125	N	VAL	A	22	-27.671	53.310	-17.680	1.00	19.63	A N
ATOM	126	CA	VAL	A	22	-26.355	53.615	-17.122	1.00	17.65	A C
ATOM	127	CB	VAL	A	22	-25.434	54.288	-18.168	1.00	23.32	A C
ATOM	128	CG1	VAL	A	22	-24.097	54.704	-17.510	1.00	23.97	A C
ATOM	129	CG2	VAL	A	22	-25.194	53.363	-19.324	1.00	19.95	A C
ATOM	130	C	VAL	A	22	-26.542	54.611	-15.993	1.00	18.84	A C
ATOM	131	O	VAL	A	22	-27.368	55.520	-16.095	1.00	22.07	A O
ATOM	132	N	ARG	A	23	-25.789	54.432	-14.914	1.00	13.25	A N
ATOM	133	CA	ARG	A	23	-25.834	55.337	-13.781	1.00	16.67	A C

Table 8

ATOM	134	CB	ARG	A	23	-26.628	54.731	-12.613	1.00	19.51	A	C
ATOM	135	CG	ARG	A	23	-26.712	55.644	-11.363	1.00	24.68	A	C
ATOM	136	CD	ARG	A	23	-27.570	55.017	-10.243	1.00	20.79	A	C
ATOM	137	NE	ARG	A	23	-26.929	53.827	-9.691	1.00	26.45	A	N
ATOM	138	CZ	ARG	A	23	-26.132	53.830	-8.627	1.00	24.92	A	C
ATOM	139	NH1	ARG	A	23	-25.880	54.969	-7.978	1.00	18.43	A	N
ATOM	140	NH2	ARG	A	23	-25.563	52.694	-8.232	1.00	17.87	A	N
ATOM	141	C	ARG	A	23	-24.406	55.553	-13.335	1.00	20.84	A	C
ATOM	142	O	ARG	A	23	-23.608	54.600	-13.293	1.00	20.56	A	O
ATOM	143	N	ILE	A	24	-24.047	56.797	-13.035	1.00	19.56	A	N
ATOM	144	CA	ILE	A	24	-22.706	57.038	-12.539	1.00	18.87	A	C
ATOM	145	CB	ILE	A	24	-22.244	58.478	-12.776	1.00	21.08	A	C
ATOM	146	CG2	ILE	A	24	-20.990	58.752	-11.938	1.00	22.25	A	C
ATOM	147	CG1	ILE	A	24	-21.971	58.682	-14.268	1.00	20.88	A	C
ATOM	148	CD1	ILE	A	24	-21.744	60.141	-14.674	1.00	25.41	A	C
ATOM	149	C	ILE	A	24	-22.871	56.775	-11.051	1.00	18.65	A	C
ATOM	150	O	ILE	A	24	-23.563	57.509	-10.365	1.00	23.15	A	O
ATOM	151	N	ALA	A	25	-22.263	55.698	-10.569	1.00	16.76	A	N
ATOM	152	CA	ALA	A	25	-22.396	55.319	-9.174	1.00	19.77	A	C
ATOM	153	CB	ALA	A	25	-22.023	53.821	-8.990	1.00	20.73	A	C
ATOM	154	C	ALA	A	25	-21.539	56.192	-8.289	1.00	22.16	A	C
ATOM	155	O	ALA	A	25	-21.967	56.579	-7.203	1.00	22.85	A	O
ATOM	156	N	LYS	A	26	-20.318	56.483	-8.735	1.00	23.26	A	N
ATOM	157	CA	LYS	A	26	-19.428	57.347	-7.964	1.00	26.18	A	C
ATOM	158	CB	LYS	A	26	-18.946	56.643	-6.692	1.00	31.87	A	C
ATOM	159	CG	LYS	A	26	-18.000	55.488	-6.931	1.00	46.52	A	C
ATOM	160	CD	LYS	A	26	-17.581	54.855	-5.613	1.00	55.38	A	C
ATOM	161	CE	LYS	A	26	-17.073	55.911	-4.634	1.00	63.41	A	C
ATOM	162	NZ	LYS	A	26	-16.676	55.340	-3.309	1.00	67.58	A	N
ATOM	163	C	LYS	A	26	-18.225	57.810	-8.771	1.00	24.17	A	C
ATOM	164	O	LYS	A	26	-17.833	57.173	-9.741	1.00	16.57	A	O
ATOM	165	N	THR	A	27	-17.660	58.945	-8.379	1.00	21.17	A	N
ATOM	166	CA	THR	A	27	-16.482	59.488	-9.054	1.00	23.65	A	C
ATOM	167	CB	THR	A	27	-16.794	60.806	-9.751	1.00	27.77	A	C
ATOM	168	OG1	THR	A	27	-17.335	61.713	-8.792	1.00	30.18	A	O
ATOM	169	CG2	THR	A	27	-17.820	60.601	-10.874	1.00	24.51	A	C
ATOM	170	C	THR	A	27	-15.521	59.747	-7.913	1.00	27.25	A	C
ATOM	171	O	THR	A	27	-15.934	60.163	-6.831	1.00	28.16	A	O
ATOM	172	N	MSE	A	28	-14.245	59.476	-8.130	1.00	23.80	A	N
ATOM	173	CA	MSE	A	28	-13.273	59.662	-7.076	1.00	25.29	A	C
ATOM	174	CB	MSE	A	28	-12.859	58.296	-6.520	1.00	27.30	A	C
ATOM	175	CG	MSE	A	28	-14.008	57.331	-6.314	1.00	37.96	A	C
ATOM	176	SE	MSE	A	28	-13.344	55.522	-5.992	1.00	47.64	A	S
ATOM	177	CE	MSE	A	28	-13.056	55.660	-4.122	1.00	34.91	A	C
ATOM	178	C	MSE	A	28	-12.035	60.346	-7.632	1.00	22.44	A	C
ATOM	179	O	MSE	A	28	-11.736	60.231	-8.818	1.00	18.71	A	O
ATOM	180	N	LEU	A	29	-11.310	61.039	-6.760	1.00	25.47	A	N
ATOM	181	CA	LEU	A	29	-10.068	61.700	-7.148	1.00	27.48	A	C
ATOM	182	CB	LEU	A	29	-10.060	63.149	-6.663	1.00	27.67	A	C
ATOM	183	CG	LEU	A	29	-11.032	64.071	-7.404	1.00	31.84	A	C
ATOM	184	CD1	LEU	A	29	-11.158	65.394	-6.673	1.00	35.36	A	C
ATOM	185	CD2	LEU	A	29	-10.541	64.288	-8.842	1.00	29.63	A	C
ATOM	186	C	LEU	A	29	-8.916	60.932	-6.497	1.00	26.22	A	C
ATOM	187	O	LEU	A	29	-8.999	60.557	-5.334	1.00	25.84	A	O
ATOM	188	N	THR	A	30	-7.860	60.646	-7.245	1.00	20.56	A	N
ATOM	189	CA	THR	A	30	-6.736	59.972	-6.622	1.00	20.54	A	C
ATOM	190	CB	THR	A	30	-5.850	59.323	-7.682	1.00	21.24	A	C

Table 8

ATOM	191	OG1	THR	A	30	-5.308	60.338	-8.544	1.00	25.31	A O
ATOM	192	CG2	THR	A	30	-6.667	58.329	-8.503	1.00	23.79	A C
ATOM	193	C	THR	A	30	-5.964	61.097	-5.875	1.00	23.06	A C
ATOM	194	O	THR	A	30	-6.322	62.267	-5.975	1.00	23.74	A O
ATOM	195	N	PRO	A	31	-4.913	60.762	-5.118	1.00	25.08	A N
ATOM	196	CD	PRO	A	31	-4.444	59.433	-4.695	1.00	25.04	A C
ATOM	197	CA	PRO	A	31	-4.182	61.828	-4.409	1.00	28.72	A C
ATOM	198	CB	PRO	A	31	-3.033	61.073	-3.739	1.00	26.99	A C
ATOM	199	CG	PRO	A	31	-3.681	59.758	-3.399	1.00	29.55	A C
ATOM	200	C	PRO	A	31	-3.689	62.981	-5.292	1.00	27.00	A C
ATOM	201	O	PRO	A	31	-3.842	64.143	-4.934	1.00	27.00	A O
ATOM	202	N	LYS	A	32	-3.118	62.662	-6.448	1.00	26.77	A N
ATOM	203	CA	LYS	A	32	-2.619	63.702	-7.351	1.00	29.41	A C
ATOM	204	CB	LYS	A	32	-1.680	63.104	-8.393	1.00	29.01	A C
ATOM	205	CG	LYS	A	32	-0.326	62.690	-7.845	1.00	29.53	A C
ATOM	206	CD	LYS	A	32	0.424	61.821	-8.847	1.00	29.45	A C
ATOM	207	CE	LYS	A	32	1.893	61.683	-8.471	1.00	27.65	A C
ATOM	208	NZ	LYS	A	32	2.040	61.384	-7.040	1.00	35.51	A N
ATOM	209	C	LYS	A	32	-3.737	64.449	-8.065	1.00	30.99	A C
ATOM	210	O	LYS	A	32	-3.507	65.497	-8.679	1.00	29.69	A O
ATOM	211	N	GLY	A	33	-4.948	63.912	-7.994	1.00	30.29	A N
ATOM	212	CA	GLY	A	33	-6.064	64.566	-8.651	1.00	28.60	A C
ATOM	213	C	GLY	A	33	-6.546	63.943	-9.954	1.00	28.58	A C
ATOM	214	O	GLY	A	33	-7.181	64.628	-10.751	1.00	27.85	A O
ATOM	215	N	ASP	A	34	-6.241	62.669	-10.200	1.00	24.88	A N
ATOM	216	CA	ASP	A	34	-6.722	62.021	-11.423	1.00	22.49	A C
ATOM	217	CB	ASP	A	34	-5.758	60.921	-11.875	1.00	22.31	A C
ATOM	218	CG	ASP	A	34	-4.669	61.443	-12.826	1.00	28.04	A C
ATOM	219	OD1	ASP	A	34	-3.586	60.826	-12.908	1.00	29.30	A O
ATOM	220	OD2	ASP	A	34	-4.899	62.463	-13.515	1.00	29.20	A O
ATOM	221	C	ASP	A	34	-8.112	61.466	-11.102	1.00	21.35	A C
ATOM	222	O	ASP	A	34	-8.417	61.179	-9.947	1.00	24.54	A O
ATOM	223	N	ASN	A	35	-8.951	61.333	-12.121	1.00	21.26	A N
ATOM	224	CA	ASN	A	35	-10.330	60.881	-11.960	1.00	23.03	A C
ATOM	225	CB	ASN	A	35	-11.233	61.602	-12.963	1.00	23.38	A C
ATOM	226	CG	ASN	A	35	-11.151	63.100	-12.844	1.00	29.23	A C
ATOM	227	OD1	ASN	A	35	-11.552	63.682	-11.837	1.00	28.93	A O
ATOM	228	ND2	ASN	A	35	-10.621	63.736	-13.874	1.00	31.01	A N
ATOM	229	C	ASN	A	35	-10.600	59.400	-12.141	1.00	19.76	A C
ATOM	230	O	ASN	A	35	-10.120	58.779	-13.080	1.00	17.03	A O
ATOM	231	N	ILE	A	36	-11.428	58.869	-11.256	1.00	18.81	A N
ATOM	232	CA	ILE	A	36	-11.852	57.483	-11.318	1.00	18.93	A C
ATOM	233	CB	ILE	A	36	-11.278	56.674	-10.136	1.00	21.36	A C
ATOM	234	CG2	ILE	A	36	-12.038	55.351	-9.960	1.00	21.45	A C
ATOM	235	CG1	ILE	A	36	-9.794	56.392	-10.406	1.00	23.16	A C
ATOM	236	CD1	ILE	A	36	-9.124	55.625	-9.318	1.00	27.00	A C
ATOM	237	C	ILE	A	36	-13.391	57.518	-11.260	1.00	19.79	A C
ATOM	238	O	ILE	A	36	-13.972	58.221	-10.431	1.00	17.90	A O
ATOM	239	N	THR	A	37	-14.042	56.787	-12.161	1.00	16.53	A N
ATOM	240	CA	THR	A	37	-15.502	56.727	-12.194	1.00	16.99	A C
ATOM	241	CB	THR	A	37	-16.091	57.345	-13.503	1.00	18.86	A C
ATOM	242	OG1	THR	A	37	-15.566	58.660	-13.706	1.00	19.78	A O
ATOM	243	CG2	THR	A	37	-17.617	57.433	-13.425	1.00	16.54	A C
ATOM	244	C	THR	A	37	-15.975	55.279	-12.157	1.00	19.33	A C
ATOM	245	O	THR	A	37	-15.434	54.414	-12.869	1.00	19.28	A O
ATOM	246	N	VAL	A	38	-16.987	55.008	-11.341	1.00	15.92	A N
ATOM	247	CA	VAL	A	38	-17.559	53.666	-11.280	1.00	18.50	A C

Table 8

ATOM	248	CB	VAL	A	38	-17.627	53.150	-9.839	1.00	18.53	A	C
ATOM	249	CG1	VAL	A	38	-18.196	51.737	-9.826	1.00	15.87	A	C
ATOM	250	CG2	VAL	A	38	-16.227	53.176	-9.215	1.00	16.12	A	C
ATOM	251	C	VAL	A	38	-18.984	53.767	-11.846	1.00	19.87	A	C
ATOM	252	O	VAL	A	38	-19.777	54.600	-11.396	1.00	14.15	A	O
ATOM	253	N	PHE	A	39	-19.277	52.942	-12.848	1.00	15.41	A	N
ATOM	254	CA	PHE	A	39	-20.582	52.910	-13.505	1.00	14.37	A	C
ATOM	255	CB	PHE	A	39	-20.413	52.883	-15.029	1.00	19.87	A	C
ATOM	256	CG	PHE	A	39	-19.880	54.162	-15.609	1.00	19.67	A	C
ATOM	257	CD1	PHE	A	39	-20.750	55.168	-16.015	1.00	16.01	A	C
ATOM	258	CD2	PHE	A	39	-18.508	54.366	-15.718	1.00	19.84	A	C
ATOM	259	CE1	PHE	A	39	-20.259	56.376	-16.525	1.00	24.62	A	C
ATOM	260	CE2	PHE	A	39	-17.992	55.574	-16.227	1.00	20.74	A	C
ATOM	261	CZ	PHE	A	39	-18.875	56.582	-16.629	1.00	19.83	A	C
ATOM	262	C	PHE	A	39	-21.373	51.659	-13.116	1.00	18.29	A	C
ATOM	263	O	PHE	A	39	-20.815	50.553	-12.973	1.00	13.97	A	O
ATOM	264	N	ASP	A	40	-22.675	51.854	-12.976	1.00	16.09	A	N
ATOM	265	CA	ASP	A	40	-23.636	50.802	-12.640	1.00	16.65	A	C
ATOM	266	CB	ASP	A	40	-24.605	51.338	-11.564	1.00	19.65	A	C
ATOM	267	CG	ASP	A	40	-25.963	50.591	-11.515	1.00	22.10	A	C
ATOM	268	OD1	ASP	A	40	-26.263	49.719	-12.358	1.00	21.40	A	O
ATOM	269	OD2	ASP	A	40	-26.756	50.910	-10.614	1.00	20.53	A	O
ATOM	270	C	ASP	A	40	-24.338	50.599	-13.971	1.00	15.17	A	C
ATOM	271	O	ASP	A	40	-25.057	51.476	-14.423	1.00	15.62	A	O
ATOM	272	N	LEU	A	41	-24.067	49.474	-14.621	1.00	11.60	A	N
ATOM	273	CA	LEU	A	41	-24.664	49.143	-15.902	1.00	11.76	A	C
ATOM	274	CB	LEU	A	41	-23.635	48.408	-16.772	1.00	13.07	A	C
ATOM	275	CG	LEU	A	41	-22.273	49.139	-16.844	1.00	18.80	A	C
ATOM	276	CD1	LEU	A	41	-21.291	48.401	-17.741	1.00	15.96	A	C
ATOM	277	CD2	LEU	A	41	-22.509	50.520	-17.377	1.00	15.57	A	C
ATOM	278	C	LEU	A	41	-25.803	48.205	-15.486	1.00	18.40	A	C
ATOM	279	O	LEU	A	41	-25.588	47.012	-15.248	1.00	13.65	A	O
ATOM	280	N	ARG	A	42	-27.001	48.766	-15.384	1.00	14.62	A	N
ATOM	281	CA	ARG	A	42	-28.171	48.023	-14.925	1.00	18.30	A	C
ATOM	282	CB	ARG	A	42	-29.104	48.980	-14.147	1.00	16.01	A	C
ATOM	283	CG	ARG	A	42	-30.265	48.280	-13.380	1.00	17.63	A	C
ATOM	284	CD	ARG	A	42	-29.738	47.478	-12.185	1.00	12.64	A	C
ATOM	285	NE	ARG	A	42	-28.938	48.311	-11.294	1.00	17.21	A	N
ATOM	286	CZ	ARG	A	42	-28.679	48.011	-10.028	1.00	22.35	A	C
ATOM	287	NH1	ARG	A	42	-29.162	46.892	-9.500	1.00	20.03	A	N
ATOM	288	NH2	ARG	A	42	-27.930	48.815	-9.290	1.00	14.33	A	N
ATOM	289	C	ARG	A	42	-28.919	47.372	-16.074	1.00	15.79	A	C
ATOM	290	O	ARG	A	42	-29.571	48.058	-16.853	1.00	18.43	A	O
ATOM	291	N	PHE	A	43	-28.822	46.047	-16.192	1.00	16.20	A	N
ATOM	292	CA	PHE	A	43	-29.506	45.332	-17.275	1.00	16.98	A	C
ATOM	293	CB	PHE	A	43	-28.846	43.971	-17.528	1.00	12.05	A	C
ATOM	294	CG	PHE	A	43	-27.548	44.037	-18.286	1.00	18.47	A	C
ATOM	295	CD1	PHE	A	43	-27.414	43.370	-19.494	1.00	11.21	A	C
ATOM	296	CD2	PHE	A	43	-26.466	44.759	-17.797	1.00	16.36	A	C
ATOM	297	CE1	PHE	A	43	-26.218	43.418	-20.214	1.00	20.22	A	C
ATOM	298	CE2	PHE	A	43	-25.256	44.816	-18.514	1.00	18.35	A	C
ATOM	299	CZ	PHE	A	43	-25.137	44.144	-19.721	1.00	18.48	A	C
ATOM	300	C	PHE	A	43	-30.988	45.068	-16.973	1.00	22.10	A	C
ATOM	301	O	PHE	A	43	-31.824	45.106	-17.875	1.00	23.01	A	O
ATOM	302	N	CYS	A	44	-31.295	44.813	-15.701	1.00	21.49	A	N
ATOM	303	CA	CYS	A	44	-32.651	44.433	-15.273	1.00	22.23	A	C
ATOM	304	CB	CYS	A	44	-32.611	43.084	-14.541	1.00	20.52	A	C

Table 8

ATOM	305	SG	CYS	A	44	-31.701	41.814	-15.327	1.00	22.31	A	S
ATOM	306	C	CYS	A	44	-33.349	45.368	-14.331	1.00	21.82	A	C
ATOM	307	O	CYS	A	44	-32.710	46.026	-13.516	1.00	22.93	A	O
ATOM	308	N	ILE	A	45	-34.673	45.396	-14.428	1.00	22.44	A	N
ATOM	309	CA	ILE	A	45	-35.475	46.191	-13.510	1.00	23.47	A	C
ATOM	310	CB	ILE	A	45	-36.985	46.137	-13.862	1.00	24.90	A	C
ATOM	311	CG2	ILE	A	45	-37.793	46.838	-12.767	1.00	20.35	A	C
ATOM	312	CG1	ILE	A	45	-37.242	46.778	-15.234	1.00	26.93	A	C
ATOM	313	CD1	ILE	A	45	-36.977	48.250	-15.270	1.00	31.79	A	C
ATOM	314	C	ILE	A	45	-35.296	45.467	-12.171	1.00	19.94	A	C
ATOM	315	O	ILE	A	45	-35.626	44.289	-12.050	1.00	21.76	A	O
ATOM	316	N	PRO	A	46	-34.786	46.159	-11.153	1.00	20.88	A	N
ATOM	317	CD	PRO	A	46	-34.378	47.574	-11.158	1.00	20.99	A	C
ATOM	318	CA	PRO	A	46	-34.570	45.558	-9.834	1.00	21.52	A	C
ATOM	319	CB	PRO	A	46	-34.195	46.758	-8.971	1.00	19.27	A	C
ATOM	320	CG	PRO	A	46	-33.475	47.642	-9.955	1.00	22.89	A	C
ATOM	321	C	PRO	A	46	-35.776	44.809	-9.256	1.00	25.95	A	C
ATOM	322	O	PRO	A	46	-36.875	45.360	-9.173	1.00	21.29	A	O
ATOM	323	N	ASN	A	47	-35.550	43.560	-8.851	1.00	23.79	A	N
ATOM	324	CA	ASN	A	47	-36.589	42.730	-8.244	1.00	26.70	A	C
ATOM	325	CB	ASN	A	47	-37.088	43.384	-6.948	1.00	23.01	A	C
ATOM	326	CG	ASN	A	47	-35.976	43.575	-5.944	1.00	24.57	A	C
ATOM	327	OD1	ASN	A	47	-35.374	42.597	-5.493	1.00	21.43	A	O
ATOM	328	ND2	ASN	A	47	-35.675	44.834	-5.604	1.00	15.13	A	N
ATOM	329	C	ASN	A	47	-37.776	42.411	-9.139	1.00	25.21	A	C
ATOM	330	O	ASN	A	47	-38.847	42.093	-8.651	1.00	30.95	A	O
ATOM	331	N	LYS	A	48	-37.589	42.504	-10.445	1.00	27.51	A	N
ATOM	332	CA	LYS	A	48	-38.653	42.179	-11.381	1.00	25.56	A	C
ATOM	333	CB	LYS	A	48	-39.208	43.440	-12.042	1.00	28.64	A	C
ATOM	334	CG	LYS	A	48	-39.997	44.328	-11.099	1.00	40.31	A	C
ATOM	335	CD	LYS	A	48	-41.216	43.587	-10.568	1.00	49.93	A	C
ATOM	336	CE	LYS	A	48	-42.069	44.453	-9.665	1.00	53.10	A	C
ATOM	337	NZ	LYS	A	48	-43.218	43.660	-9.143	1.00	57.02	A	N
ATOM	338	C	LYS	A	48	-38.049	41.283	-12.436	1.00	28.87	A	C
ATOM	339	O	LYS	A	48	-38.727	40.455	-13.041	1.00	31.25	A	O
ATOM	340	N	GLU	A	49	-36.749	41.444	-12.637	1.00	26.50	A	N
ATOM	341	CA	GLU	A	49	-36.024	40.678	-13.634	1.00	26.61	A	C
ATOM	342	CB	GLU	A	49	-35.845	41.532	-14.897	1.00	27.69	A	C
ATOM	343	CG	GLU	A	49	-37.151	42.080	-15.460	1.00	33.18	A	C
ATOM	344	CD	GLU	A	49	-36.941	43.129	-16.549	1.00	39.80	A	C
ATOM	345	OE1	GLU	A	49	-37.742	43.135	-17.508	1.00	45.19	A	O
ATOM	346	OE2	GLU	A	49	-35.996	43.951	-16.447	1.00	34.22	A	O
ATOM	347	C	GLU	A	49	-34.665	40.351	-13.026	1.00	23.99	A	C
ATOM	348	O	GLU	A	49	-34.191	41.068	-12.152	1.00	23.23	A	O
ATOM	349	N	ILE	A	50	-34.044	39.277	-13.488	1.00	20.60	A	N
ATOM	350	CA	ILE	A	50	-32.740	38.877	-12.981	1.00	22.32	A	C
ATOM	351	CB	ILE	A	50	-32.892	38.069	-11.659	1.00	22.65	A	C
ATOM	352	CG2	ILE	A	50	-33.566	36.728	-11.947	1.00	22.07	A	C
ATOM	353	CG1	ILE	A	50	-31.525	37.883	-10.983	1.00	18.27	A	C
ATOM	354	CD1	ILE	A	50	-31.618	37.350	-9.554	1.00	21.03	A	C
ATOM	355	C	ILE	A	50	-32.077	38.030	-14.062	1.00	22.66	A	C
ATOM	356	O	ILE	A	50	-32.771	37.356	-14.827	1.00	24.22	A	O
ATOM	357	N	LEU	A	51	-30.748	38.093	-14.155	1.00	19.54	A	N
ATOM	358	CA	LEU	A	51	-30.005	37.336	-15.162	1.00	19.46	A	C
ATOM	359	CB	LEU	A	51	-28.722	38.089	-15.547	1.00	17.39	A	C
ATOM	360	CG	LEU	A	51	-28.718	39.184	-16.626	1.00	27.09	A	C
ATOM	361	CD1	LEU	A	51	-30.129	39.575	-17.010	1.00	19.92	A	C

ATOM	362	CD2	LEU	A	51	-27.902	40.380	-16.144	1.00	18.99	A C
ATOM	363	C	LEU	A	51	-29.637	35.968	-14.592	1.00	22.08	A C
ATOM	364	O	LEU	A	51	-29.375	35.849	-13.396	1.00	18.00	A O
ATOM	365	N	SER	A	52	-29.581	34.940	-15.437	1.00	17.74	A N
ATOM	366	CA	SER	A	52	-29.246	33.612	-14.942	1.00	16.40	A C
ATOM	367	CB	SER	A	52	-29.489	32.553	-16.024	1.00	17.41	A C
ATOM	368	OG	SER	A	52	-28.471	32.643	-17.007	1.00	16.23	A O
ATOM	369	C	SER	A	52	-27.779	33.559	-14.539	1.00	18.66	A C
ATOM	370	O	SER	A	52	-26.954	34.301	-15.070	1.00	19.99	A O
ATOM	371	N	PRO	A	53	-27.431	32.664	-13.603	1.00	18.96	A N
ATOM	372	CD	PRO	A	53	-28.347	31.998	-12.656	1.00	19.91	A C
ATOM	373	CA	PRO	A	53	-26.039	32.537	-13.161	1.00	17.68	A C
ATOM	374	CB	PRO	A	53	-26.121	31.455	-12.097	1.00	21.92	A C
ATOM	375	CG	PRO	A	53	-27.457	31.753	-11.450	1.00	20.57	A C
ATOM	376	C	PRO	A	53	-25.075	32.179	-14.296	1.00	19.87	A C
ATOM	377	O	PRO	A	53	-23.961	32.706	-14.362	1.00	18.62	A O
ATOM	378	N	LYS	A	54	-25.491	31.289	-15.190	1.00	16.96	A N
ATOM	379	CA	LYS	A	54	-24.614	30.904	-16.294	1.00	17.39	A C
ATOM	380	CB	LYS	A	54	-25.058	29.580	-16.928	1.00	19.93	A C
ATOM	381	CG	LYS	A	54	-24.849	28.379	-16.013	1.00	26.97	A C
ATOM	382	CD	LYS	A	54	-25.523	27.132	-16.564	1.00	33.91	A C
ATOM	383	CE	LYS	A	54	-25.322	25.957	-15.628	1.00	40.93	A C
ATOM	384	NZ	LYS	A	54	-26.001	24.734	-16.148	1.00	48.90	A N
ATOM	385	C	LYS	A	54	-24.585	31.976	-17.351	1.00	17.00	A C
ATOM	386	O	LYS	A	54	-23.539	32.235	-17.946	1.00	19.43	A O
ATOM	387	N	GLY	A	55	-25.736	32.588	-17.611	1.00	17.37	A N
ATOM	388	CA	GLY	A	55	-25.775	33.637	-18.612	1.00	21.95	A C
ATOM	389	C	GLY	A	55	-24.913	34.828	-18.204	1.00	18.62	A C
ATOM	390	O	GLY	A	55	-24.179	35.376	-19.021	1.00	20.10	A O
ATOM	391	N	ILE	A	56	-24.989	35.237	-16.940	1.00	19.36	A N
ATOM	392	CA	ILE	A	56	-24.192	36.377	-16.524	1.00	16.76	A C
ATOM	393	CB	ILE	A	56	-24.638	36.936	-15.119	1.00	19.39	A C
ATOM	394	CG2	ILE	A	56	-23.997	36.153	-13.968	1.00	12.26	A C
ATOM	395	CG1	ILE	A	56	-24.253	38.416	-15.016	1.00	19.41	A C
ATOM	396	CD1	ILE	A	56	-24.850	39.087	-13.790	1.00	19.82	A C
ATOM	397	C	ILE	A	56	-22.708	36.026	-16.569	1.00	16.96	A C
ATOM	398	O	ILE	A	56	-21.886	36.892	-16.803	1.00	18.18	A O
ATOM	399	N	HIS	A	57	-22.358	34.754	-16.398	1.00	12.73	A N
ATOM	400	CA	HIS	A	57	-20.953	34.380	-16.478	1.00	15.36	A C
ATOM	401	CB	HIS	A	57	-20.741	32.938	-15.941	1.00	13.24	A C
ATOM	402	CG	HIS	A	57	-19.305	32.504	-15.913	1.00	16.03	A C
ATOM	403	CD2	HIS	A	57	-18.154	33.220	-15.953	1.00	12.86	A C
ATOM	404	ND1	HIS	A	57	-18.926	31.181	-15.811	1.00	16.49	A N
ATOM	405	CE1	HIS	A	57	-17.606	31.101	-15.792	1.00	16.61	A C
ATOM	406	NE2	HIS	A	57	-17.115	32.325	-15.876	1.00	17.18	A N
ATOM	407	C	HIS	A	57	-20.455	34.487	-17.952	1.00	15.59	A C
ATOM	408	O	HIS	A	57	-19.390	35.045	-18.218	1.00	15.16	A O
ATOM	409	N	THR	A	58	-21.210	33.959	-18.908	1.00	15.23	A N
ATOM	410	CA	THR	A	58	-20.783	34.024	-20.314	1.00	15.99	A C
ATOM	411	CB	THR	A	58	-21.735	33.237	-21.212	1.00	20.81	A C
ATOM	412	OG1	THR	A	58	-21.787	31.888	-20.742	1.00	21.60	A O
ATOM	413	CG2	THR	A	58	-21.258	33.251	-22.674	1.00	18.27	A C
ATOM	414	C	THR	A	58	-20.741	35.470	-20.782	1.00	21.64	A C
ATOM	415	O	THR	A	58	-19.797	35.887	-21.467	1.00	21.29	A O
ATOM	416	N	LEU	A	59	-21.775	36.222	-20.406	1.00	17.22	A N
ATOM	417	CA	LEU	A	59	-21.891	37.629	-20.740	1.00	18.43	A C
ATOM	418	CB	LEU	A	59	-23.225	38.157	-20.201	1.00	12.36	A C

Table 8

ATOM	419	CG	LEU	A	59	-23.562	39.618	-20.471	1.00	20.60	A C
ATOM	420	CD1	LEU	A	59	-23.563	39.904	-22.006	1.00	19.81	A C
ATOM	421	CD2	LEU	A	59	-24.905	39.911	-19.856	1.00	17.63	A C
ATOM	422	C	LEU	A	59	-20.694	38.424	-20.181	1.00	20.12	A C
ATOM	423	O	LEU	A	59	-20.156	39.310	-20.850	1.00	16.92	A O
ATOM	424	N	GLU	A	60	-20.283	38.097	-18.956	1.00	18.24	A N
ATOM	425	CA	GLU	A	60	-19.141	38.742	-18.298	1.00	19.29	A C
ATOM	426	CB	GLU	A	60	-18.856	38.058	-16.942	1.00	15.05	A C
ATOM	427	CG	GLU	A	60	-17.665	38.600	-16.142	1.00	20.05	A C
ATOM	428	CD	GLU	A	60	-17.192	37.610	-15.057	1.00	24.67	A C
ATOM	429	OE1	GLU	A	60	-16.816	38.039	-13.945	1.00	23.97	A O
ATOM	430	OE2	GLU	A	60	-17.196	36.386	-15.324	1.00	24.81	A O
ATOM	431	C	GLU	A	60	-17.904	38.620	-19.185	1.00	20.28	A C
ATOM	432	O	GLU	A	60	-17.208	39.605	-19.450	1.00	19.80	A O
ATOM	433	N	HIS	A	61	-17.611	37.397	-19.612	1.00	20.36	A N
ATOM	434	CA	HIS	A	61	-16.456	37.151	-20.472	1.00	23.19	A C
ATOM	435	CB	HIS	A	61	-16.410	35.704	-20.954	1.00	24.97	A C
ATOM	436	CG	HIS	A	61	-15.831	34.754	-19.965	1.00	28.88	A C
ATOM	437	CD2	HIS	A	61	-16.085	34.569	-18.648	1.00	29.34	A C
ATOM	438	ND1	HIS	A	61	-14.901	33.799	-20.316	1.00	35.40	A N
ATOM	439	CE1	HIS	A	61	-14.611	33.062	-19.259	1.00	33.65	A C
ATOM	440	NE2	HIS	A	61	-15.317	33.508	-18.236	1.00	35.31	A N
ATOM	441	C	HIS	A	61	-16.473	38.008	-21.718	1.00	22.43	A C
ATOM	442	O	HIS	A	61	-15.473	38.651	-22.061	1.00	19.69	A O
ATOM	443	N	LEU	A	62	-17.602	37.975	-22.413	1.00	18.53	A N
ATOM	444	CA	LEU	A	62	-17.734	38.709	-23.658	1.00	22.04	A C
ATOM	445	CB	LEU	A	62	-19.015	38.259	-24.381	1.00	16.50	A C
ATOM	446	CG	LEU	A	62	-19.081	36.743	-24.662	1.00	24.18	A C
ATOM	447	CD1	LEU	A	62	-20.394	36.380	-25.330	1.00	22.58	A C
ATOM	448	CD2	LEU	A	62	-17.918	36.320	-25.536	1.00	19.26	A C
ATOM	449	C	LEU	A	62	-17.743	40.227	-23.448	1.00	20.10	A C
ATOM	450	O	LEU	A	62	-16.981	40.957	-24.079	1.00	19.52	A O
ATOM	451	N	PHE	A	63	-18.606	40.671	-22.542	1.00	20.43	A N
ATOM	452	CA	PHE	A	63	-18.813	42.080	-22.219	1.00	23.43	A C
ATOM	453	CB	PHE	A	63	-19.902	42.155	-21.135	1.00	20.78	A C
ATOM	454	CG	PHE	A	63	-20.490	43.517	-20.929	1.00	23.38	A C
ATOM	455	CD1	PHE	A	63	-20.860	44.307	-22.013	1.00	21.81	A C
ATOM	456	CD2	PHE	A	63	-20.762	43.979	-19.631	1.00	18.91	A C
ATOM	457	CE1	PHE	A	63	-21.496	45.533	-21.817	1.00	23.96	A C
ATOM	458	CE2	PHE	A	63	-21.393	45.190	-19.425	1.00	20.76	A C
ATOM	459	CZ	PHE	A	63	-21.766	45.976	-20.526	1.00	20.04	A C
ATOM	460	C	PHE	A	63	-17.532	42.789	-21.762	1.00	23.86	A C
ATOM	461	O	PHE	A	63	-17.269	43.927	-22.153	1.00	23.22	A O
ATOM	462	N	ALA	A	64	-16.752	42.116	-20.923	1.00	21.14	A N
ATOM	463	CA	ALA	A	64	-15.511	42.677	-20.400	1.00	22.92	A C
ATOM	464	CB	ALA	A	64	-14.875	41.719	-19.372	1.00	19.77	A C
ATOM	465	C	ALA	A	64	-14.537	42.939	-21.534	1.00	21.50	A C
ATOM	466	O	ALA	A	64	-13.791	43.910	-21.496	1.00	25.51	A O
ATOM	467	N	GLY	A	65	-14.542	42.069	-22.534	1.00	23.38	A N
ATOM	468	CA	GLY	A	65	-13.653	42.255	-23.667	1.00	20.64	A C
ATOM	469	C	GLY	A	65	-14.214	43.278	-24.644	1.00	20.41	A C
ATOM	470	O	GLY	A	65	-13.501	44.182	-25.097	1.00	21.11	A O
ATOM	471	N	PHE	A	66	-15.500	43.175	-24.957	1.00	16.60	A N
ATOM	472	CA	PHE	A	66	-16.078	44.118	-25.903	1.00	19.07	A C
ATOM	473	CB	PHE	A	66	-17.490	43.667	-26.322	1.00	20.37	A C
ATOM	474	CG	PHE	A	66	-17.500	42.394	-27.127	1.00	23.52	A C
ATOM	475	CD1	PHE	A	66	-16.499	42.147	-28.070	1.00	23.22	A C

Table 8

ATOM	476	CD2	PHE	A	66	-18.491	41.434	-26.933	1.00	22.41	A C
ATOM	477	CE1	PHE	A	66	-16.484	40.950	-28.812	1.00	25.79	A C
ATOM	478	CE2	PHE	A	66	-18.491	40.235	-27.666	1.00	19.82	A C
ATOM	479	CZ	PHE	A	66	-17.481	39.994	-28.608	1.00	24.00	A C
ATOM	480	C	PHE	A	66	-16.109	45.568	-25.400	1.00	22.67	A C
ATOM	481	O	PHE	A	66	-15.839	46.499	-26.160	1.00	23.08	A O
ATOM	482	N	MSE	A	67	-16.439	45.767	-24.129	1.00	20.02	A N
ATOM	483	CA	MSE	A	67	-16.489	47.115	-23.599	1.00	19.09	A C
ATOM	484	CB	MSE	A	67	-16.998	47.099	-22.156	1.00	15.59	A C
ATOM	485	CG	MSE	A	67	-18.513	47.003	-22.072	1.00	24.75	A C
ATOM	486	SE	MSE	A	67	-19.419	48.577	-22.858	1.00	30.23	A S
ATOM	487	CE	MSE	A	67	-19.497	49.644	-21.268	1.00	21.28	A C
ATOM	488	C	MSE	A	67	-15.127	47.807	-23.688	1.00	21.60	A C
ATOM	489	O	MSE	A	67	-15.053	49.006	-23.989	1.00	20.27	A O
ATOM	490	N	ARG	A	68	-14.058	47.058	-23.417	1.00	19.56	A N
ATOM	491	CA	ARG	A	68	-12.714	47.596	-23.493	1.00	18.85	A C
ATOM	492	CB	ARG	A	68	-11.691	46.568	-22.980	1.00	19.73	A C
ATOM	493	CG	ARG	A	68	-11.716	46.354	-21.438	1.00	20.95	A C
ATOM	494	CD	ARG	A	68	-10.572	45.440	-20.987	1.00	21.22	A C
ATOM	495	NE	ARG	A	68	-10.308	45.497	-19.549	1.00	21.32	A N
ATOM	496	CZ	ARG	A	68	-11.072	44.932	-18.613	1.00	22.05	A C
ATOM	497	NH1	ARG	A	68	-12.161	44.258	-18.951	1.00	18.99	A N
ATOM	498	NH2	ARG	A	68	-10.740	45.035	-17.328	1.00	19.33	A N
ATOM	499	C	ARG	A	68	-12.410	47.967	-24.949	1.00	21.58	A C
ATOM	500	O	ARG	A	68	-11.734	48.973	-25.211	1.00	22.37	A O
ATOM	501	N	ASP	A	69	-12.907	47.169	-25.894	1.00	23.51	A N
ATOM	502	CA	ASP	A	69	-12.676	47.449	-27.318	1.00	29.45	A C
ATOM	503	CB	ASP	A	69	-13.282	46.372	-28.226	1.00	28.54	A C
ATOM	504	CG	ASP	A	69	-12.648	45.014	-28.044	1.00	33.67	A C
ATOM	505	OD1	ASP	A	69	-11.437	44.945	-27.750	1.00	34.76	A O
ATOM	506	OD2	ASP	A	69	-13.367	44.005	-28.229	1.00	33.89	A O
ATOM	507	C	ASP	A	69	-13.302	48.776	-27.724	1.00	26.32	A C
ATOM	508	O	ASP	A	69	-12.722	49.525	-28.499	1.00	26.08	A O
ATOM	509	N	HIS	A	70	-14.491	49.053	-27.200	1.00	26.09	A N
ATOM	510	CA	HIS	A	70	-15.214	50.274	-27.532	1.00	23.07	A C
ATOM	511	CB	HIS	A	70	-16.717	49.995	-27.552	1.00	22.28	A C
ATOM	512	CG	HIS	A	70	-17.137	49.067	-28.650	1.00	32.46	A C
ATOM	513	CD2	HIS	A	70	-17.085	49.203	-29.996	1.00	27.39	A C
ATOM	514	ND1	HIS	A	70	-17.604	47.790	-28.413	1.00	30.49	A N
ATOM	515	CE1	HIS	A	70	-17.813	47.177	-29.564	1.00	24.13	A C
ATOM	516	NE2	HIS	A	70	-17.502	48.011	-30.540	1.00	29.59	A N
ATOM	517	C	HIS	A	70	-14.953	51.504	-26.661	1.00	28.03	A C
ATOM	518	O	HIS	A	70	-15.209	52.628	-27.101	1.00	25.85	A O
ATOM	519	N	LEU	A	71	-14.456	51.312	-25.442	1.00	24.68	A N
ATOM	520	CA	LEU	A	71	-14.211	52.439	-24.537	1.00	25.40	A C
ATOM	521	CB	LEU	A	71	-14.862	52.190	-23.175	1.00	21.29	A C
ATOM	522	CG	LEU	A	71	-16.308	52.622	-22.933	1.00	27.89	A C
ATOM	523	CD1	LEU	A	71	-16.721	52.251	-21.503	1.00	23.76	A C
ATOM	524	CD2	LEU	A	71	-16.440	54.134	-23.153	1.00	23.19	A C
ATOM	525	C	LEU	A	71	-12.760	52.819	-24.293	1.00	26.26	A C
ATOM	526	O	LEU	A	71	-12.457	53.992	-24.143	1.00	27.30	A O
ATOM	527	N	ASN	A	72	-11.863	51.839	-24.243	1.00	27.30	A N
ATOM	528	CA	ASN	A	72	-10.461	52.135	-23.985	1.00	25.84	A C
ATOM	529	CB	ASN	A	72	-9.653	50.853	-23.855	1.00	23.60	A C
ATOM	530	CG	ASN	A	72	-9.668	50.302	-22.444	1.00	28.63	A C
ATOM	531	OD1	ASN	A	72	-10.243	50.905	-21.533	1.00	20.24	A O
ATOM	532	ND2	ASN	A	72	-9.025	49.156	-22.253	1.00	22.88	A N

Table 8

ATOM	533	C	ASN	A	72	-9.817	53.013	-25.043	1.00	31.32	A C
ATOM	534	O	ASN	A	72	-9.871	52.707	-26.239	1.00	24.16	A O
ATOM	535	N	GLY	A	73	-9.195	54.098	-24.593	1.00	30.02	A N
ATOM	536	CA	GLY	A	73	-8.538	55.004	-25.520	1.00	32.67	A C
ATOM	537	C	GLY	A	73	-7.564	55.924	-24.808	1.00	37.26	A C
ATOM	538	O	GLY	A	73	-7.168	55.653	-23.671	1.00	28.91	A O
ATOM	539	N	ASP	A	74	-7.209	57.028	-25.468	1.00	38.15	A N
ATOM	540	CA	ASP	A	74	-6.265	58.008	-24.934	1.00	40.65	A C
ATOM	541	CB	ASP	A	74	-6.175	59.213	-25.874	1.00	50.31	A C
ATOM	542	CG	ASP	A	74	-5.641	58.842	-27.241	1.00	58.79	A C
ATOM	543	OD1	ASP	A	74	-4.607	58.138	-27.298	1.00	61.69	A O
ATOM	544	OD2	ASP	A	74	-6.251	59.253	-28.256	1.00	64.69	A O
ATOM	545	C	ASP	A	74	-6.558	58.510	-23.525	1.00	38.98	A C
ATOM	546	O	ASP	A	74	-5.641	58.714	-22.730	1.00	38.51	A O
ATOM	547	N	SER	A	75	-7.827	58.717	-23.209	1.00	32.21	A N
ATOM	548	CA	SER	A	75	-8.161	59.220	-21.891	1.00	32.36	A C
ATOM	549	CB	SER	A	75	-8.720	60.626	-22.028	1.00	35.91	A C
ATOM	550	OG	SER	A	75	-9.542	60.683	-23.172	1.00	44.45	A O
ATOM	551	C	SER	A	75	-9.122	58.343	-21.089	1.00	26.58	A C
ATOM	552	O	SER	A	75	-9.758	58.809	-20.144	1.00	23.16	A O
ATOM	553	N	ILE	A	76	-9.232	57.074	-21.462	1.00	18.60	A N
ATOM	554	CA	ILE	A	76	-10.094	56.174	-20.710	1.00	19.14	A C
ATOM	555	CB	ILE	A	76	-11.456	55.924	-21.400	1.00	23.85	A C
ATOM	556	CG2	ILE	A	76	-12.246	54.861	-20.624	1.00	24.44	A C
ATOM	557	CG1	ILE	A	76	-12.280	57.208	-21.456	1.00	23.46	A C
ATOM	558	CD1	ILE	A	76	-13.561	57.052	-22.266	1.00	28.20	A C
ATOM	559	C	ILE	A	76	-9.400	54.845	-20.587	1.00	20.42	A C
ATOM	560	O	ILE	A	76	-8.933	54.285	-21.589	1.00	16.45	A O
ATOM	561	N	GLU	A	77	-9.291	54.346	-19.360	1.00	16.83	A N
ATOM	562	CA	GLU	A	77	-8.686	53.033	-19.177	1.00	19.96	A C
ATOM	563	CB	GLU	A	77	-7.233	53.109	-18.699	1.00	22.91	A C
ATOM	564	CG	GLU	A	77	-6.580	51.731	-18.802	1.00	32.09	A C
ATOM	565	CD	GLU	A	77	-5.161	51.665	-18.264	1.00	39.59	A C
ATOM	566	OE1	GLU	A	77	-4.715	52.630	-17.603	1.00	43.99	A O
ATOM	567	OE2	GLU	A	77	-4.504	50.622	-18.488	1.00	37.48	A O
ATOM	568	C	GLU	A	77	-9.513	52.264	-18.168	1.00	17.30	A C
ATOM	569	O	GLU	A	77	-9.559	52.623	-16.992	1.00	18.86	A O
ATOM	570	N	ILE	A	78	-10.179	51.219	-18.650	1.00	16.82	A N
ATOM	571	CA	ILE	A	78	-11.030	50.386	-17.798	1.00	15.60	A C
ATOM	572	CB	ILE	A	78	-11.886	49.426	-18.646	1.00	15.91	A C
ATOM	573	CG2	ILE	A	78	-12.536	48.339	-17.745	1.00	15.15	A C
ATOM	574	CG1	ILE	A	78	-12.978	50.239	-19.343	1.00	19.21	A C
ATOM	575	CD1	ILE	A	78	-13.544	49.596	-20.595	1.00	25.97	A C
ATOM	576	C	ILE	A	78	-10.233	49.592	-16.788	1.00	10.38	A C
ATOM	577	O	ILE	A	78	-9.279	48.894	-17.132	1.00	17.26	A O
ATOM	578	N	ILE	A	79	-10.620	49.726	-15.527	1.00	14.50	A N
ATOM	579	CA	ILE	A	79	-9.962	49.036	-14.439	1.00	13.88	A C
ATOM	580	CB	ILE	A	79	-10.133	49.805	-13.108	1.00	18.06	A C
ATOM	581	CG2	ILE	A	79	-9.467	49.020	-11.965	1.00	13.22	A C
ATOM	582	CG1	ILE	A	79	-9.543	51.212	-13.238	1.00	15.61	A C
ATOM	583	CD1	ILE	A	79	-10.084	52.198	-12.204	1.00	17.12	A C
ATOM	584	C	ILE	A	79	-10.566	47.646	-14.281	1.00	16.28	A C
ATOM	585	O	ILE	A	79	-9.848	46.645	-14.327	1.00	14.49	A O
ATOM	586	N	ASP	A	80	-11.888	47.576	-14.106	1.00	18.26	A N
ATOM	587	CA	ASP	A	80	-12.550	46.278	-13.923	1.00	17.81	A C
ATOM	588	CB	ASP	A	80	-12.461	45.829	-12.447	1.00	19.30	A C
ATOM	589	CG	ASP	A	80	-13.175	44.494	-12.202	1.00	23.18	A C

Table 8

ATOM	590	OD1	ASP	A	80	-12.642	43.447	-12.621	1.00	26.52	A O
ATOM	591	OD2	ASP	A	80	-14.277	44.487	-11.609	1.00	28.14	A O
ATOM	592	C	ASP	A	80	-14.022	46.313	-14.320	1.00	17.32	A C
ATOM	593	O	ASP	A	80	-14.680	47.341	-14.208	1.00	19.73	A O
ATOM	594	N	ILE	A	81	-14.530	45.180	-14.792	1.00	15.55	A N
ATOM	595	CA	ILE	A	81	-15.936	45.070	-15.163	1.00	16.00	A C
ATOM	596	CB	ILE	A	81	-16.131	44.982	-16.679	1.00	16.27	A C
ATOM	597	CG2	ILE	A	81	-17.594	44.693	-17.014	1.00	19.83	A C
ATOM	598	CG1	ILE	A	81	-15.734	46.301	-17.318	1.00	18.11	A C
ATOM	599	CD1	ILE	A	81	-15.633	46.202	-18.796	1.00	11.66	A C
ATOM	600	C	ILE	A	81	-16.358	43.755	-14.558	1.00	16.95	A C
ATOM	601	O	ILE	A	81	-15.873	42.714	-14.974	1.00	15.43	A O
ATOM	602	N	SER	A	82	-17.251	43.806	-13.578	1.00	14.82	A N
ATOM	603	CA	SER	A	82	-17.699	42.591	-12.911	1.00	14.38	A C
ATOM	604	CB	SER	A	82	-17.014	42.453	-11.542	1.00	15.59	A C
ATOM	605	OG	SER	A	82	-15.596	42.378	-11.651	1.00	23.97	A O
ATOM	606	C	SER	A	82	-19.198	42.590	-12.674	1.00	15.14	A C
ATOM	607	O	SER	A	82	-19.811	43.664	-12.540	1.00	14.02	A O
ATOM	608	N	PRO	A	83	-19.794	41.379	-12.581	1.00	13.27	A N
ATOM	609	CD	PRO	A	83	-19.036	40.114	-12.667	1.00	13.98	A C
ATOM	610	CA	PRO	A	83	-21.223	41.107	-12.340	1.00	19.13	A C
ATOM	611	CB	PRO	A	83	-21.318	39.575	-12.388	1.00	19.31	A C
ATOM	612	CG	PRO	A	83	-20.091	39.130	-13.045	1.00	21.46	A C
ATOM	613	C	PRO	A	83	-21.565	41.591	-10.932	1.00	18.11	A C
ATOM	614	O	PRO	A	83	-20.749	41.486	-10.029	1.00	16.18	A O
ATOM	615	N	MSE	A	84	-22.782	42.063	-10.735	1.00	19.40	A N
ATOM	616	CA	MSE	A	84	-23.187	42.562	-9.438	1.00	23.65	A C
ATOM	617	CB	MSE	A	84	-24.390	43.448	-9.596	1.00	17.33	A C
ATOM	618	CG	MSE	A	84	-24.019	44.839	-10.028	1.00	20.03	A C
ATOM	619	SE	MSE	A	84	-25.683	45.709	-10.355	1.00	31.59	A S
ATOM	620	CE	MSE	A	84	-24.988	47.279	-11.311	1.00	25.37	A C
ATOM	621	C	MSE	A	84	-23.458	41.667	-8.236	1.00	29.06	A C
ATOM	622	O	MSE	A	84	-23.238	42.089	-7.113	1.00	39.22	A O
ATOM	623	N	GLY	A	85	-23.932	40.456	-8.383	1.00	23.70	A N
ATOM	624	CA	GLY	A	85	-24.164	39.779	-7.101	1.00	18.90	A C
ATOM	625	C	GLY	A	85	-25.659	39.574	-7.064	1.00	16.01	A C
ATOM	626	O	GLY	A	85	-26.111	38.448	-6.957	1.00	14.13	A O
ATOM	627	N	CYS	A	86	-26.410	40.672	-7.192	1.00	9.45	A N
ATOM	628	CA	CYS	A	86	-27.869	40.617	-7.263	1.00	14.88	A C
ATOM	629	CB	CYS	A	86	-28.464	42.006	-7.033	1.00	16.84	A C
ATOM	630	SG	CYS	A	86	-27.794	43.271	-8.173	1.00	24.89	A S
ATOM	631	C	CYS	A	86	-28.211	40.153	-8.689	1.00	15.83	A C
ATOM	632	O	CYS	A	86	-29.375	39.926	-9.024	1.00	15.97	A O
ATOM	633	N	ARG	A	87	-27.182	40.039	-9.529	1.00	11.40	A N
ATOM	634	CA	ARG	A	87	-27.334	39.598	-10.921	1.00	12.54	A C
ATOM	635	CB	ARG	A	87	-27.766	38.122	-10.976	1.00	16.79	A C
ATOM	636	CG	ARG	A	87	-26.695	37.111	-10.520	1.00	18.65	A C
ATOM	637	CD	ARG	A	87	-27.152	35.657	-10.749	1.00	24.55	A C
ATOM	638	NE	ARG	A	87	-27.921	35.147	-9.609	1.00	34.94	A N
ATOM	639	CZ	ARG	A	87	-29.168	34.707	-9.669	1.00	30.27	A C
ATOM	640	NH1	ARG	A	87	-29.816	34.702	-10.814	1.00	37.42	A N
ATOM	641	NH2	ARG	A	87	-29.775	34.288	-8.572	1.00	40.72	A N
ATOM	642	C	ARG	A	87	-28.290	40.441	-11.781	1.00	15.92	A C
ATOM	643	O	ARG	A	87	-28.941	39.936	-12.710	1.00	14.59	A O
ATOM	644	N	THR	A	88	-28.370	41.729	-11.485	1.00	13.74	A N
ATOM	645	CA	THR	A	88	-29.226	42.602	-12.270	1.00	17.60	A C
ATOM	646	CB	THR	A	88	-30.157	43.423	-11.363	1.00	24.69	A C

ATOM	647	OG1	THR	A	88	-30.992	44.246	-12.182	1.00	45.41	A O
ATOM	648	CG2	THR	A	88	-29.363	44.335	-10.455	1.00	17.10	A C
ATOM	649	C	THR	A	88	-28.399	43.553	-13.149	1.00	20.05	A C
ATOM	650	O	THR	A	88	-28.945	44.424	-13.830	1.00	17.16	A O
ATOM	651	N	GLY	A	89	-27.081	43.377	-13.139	1.00	15.59	A N
ATOM	652	CA	GLY	A	89	-26.218	44.227	-13.943	1.00	16.93	A C
ATOM	653	C	GLY	A	89	-24.747	44.013	-13.630	1.00	16.21	A C
ATOM	654	O	GLY	A	89	-24.376	43.001	-13.032	1.00	15.56	A O
ATOM	655	N	PHE	A	90	-23.924	44.974	-14.045	1.00	16.70	A N
ATOM	656	CA	PHE	A	90	-22.479	44.956	-13.848	1.00	15.49	A C
ATOM	657	CB	PHE	A	90	-21.736	44.747	-15.175	1.00	13.09	A C
ATOM	658	CG	PHE	A	90	-21.863	43.366	-15.752	1.00	17.97	A C
ATOM	659	CD1	PHE	A	90	-23.036	42.958	-16.354	1.00	18.86	A C
ATOM	660	CD2	PHE	A	90	-20.783	42.487	-15.721	1.00	16.05	A C
ATOM	661	CE1	PHE	A	90	-23.135	41.681	-16.925	1.00	19.54	A C
ATOM	662	CE2	PHE	A	90	-20.874	41.212	-16.288	1.00	17.29	A C
ATOM	663	CZ	PHE	A	90	-22.052	40.814	-16.889	1.00	16.88	A C
ATOM	664	C	PHE	A	90	-21.996	46.306	-13.350	1.00	17.10	A C
ATOM	665	O	PHE	A	90	-22.590	47.346	-13.643	1.00	15.23	A O
ATOM	666	N	TYR	A	91	-20.899	46.278	-12.615	1.00	10.71	A N
ATOM	667	CA	TYR	A	91	-20.257	47.496	-12.172	1.00	13.33	A C
ATOM	668	CB	TYR	A	91	-19.775	47.403	-10.733	1.00	15.87	A C
ATOM	669	CG	TYR	A	91	-20.778	47.915	-9.745	1.00	20.72	A C
ATOM	670	CD1	TYR	A	91	-21.466	47.041	-8.897	1.00	20.81	A C
ATOM	671	CE1	TYR	A	91	-22.406	47.527	-7.994	1.00	22.98	A C
ATOM	672	CD2	TYR	A	91	-21.054	49.284	-9.665	1.00	26.19	A C
ATOM	673	CE2	TYR	A	91	-21.993	49.781	-8.768	1.00	24.88	A C
ATOM	674	CZ	TYR	A	91	-22.667	48.898	-7.941	1.00	27.64	A C
ATOM	675	OH	TYR	A	91	-23.639	49.395	-7.105	1.00	35.32	A O
ATOM	676	C	TYR	A	91	-19.037	47.603	-13.085	1.00	14.85	A C
ATOM	677	O	TYR	A	91	-18.394	46.595	-13.406	1.00	16.96	A O
ATOM	678	N	MSE	A	92	-18.749	48.803	-13.559	1.00	11.64	A N
ATOM	679	CA	MSE	A	92	-17.561	48.986	-14.374	1.00	13.41	A C
ATOM	680	CB	MSE	A	92	-17.893	49.335	-15.825	1.00	11.16	A C
ATOM	681	CG	MSE	A	92	-16.617	49.750	-16.624	1.00	15.97	A C
ATOM	682	SE	MSE	A	92	-16.988	50.154	-18.508	1.00	25.74	A S
ATOM	683	CE	MSE	A	92	-16.055	48.822	-19.426	1.00	37.48	A C
ATOM	684	C	MSE	A	92	-16.780	50.130	-13.767	1.00	16.77	A C
ATOM	685	O	MSE	A	92	-17.313	51.228	-13.613	1.00	19.02	A O
ATOM	686	N	SER	A	93	-15.521	49.888	-13.414	1.00	16.02	A N
ATOM	687	CA	SER	A	93	-14.737	50.969	-12.852	1.00	17.17	A C
ATOM	688	CB	SER	A	93	-14.127	50.529	-11.514	1.00	21.89	A C
ATOM	689	OG	SER	A	93	-13.185	49.495	-11.713	1.00	29.80	A O
ATOM	690	C	SER	A	93	-13.654	51.351	-13.865	1.00	16.48	A C
ATOM	691	O	SER	A	93	-13.088	50.475	-14.529	1.00	14.72	A O
ATOM	692	N	LEU	A	94	-13.347	52.644	-13.993	1.00	13.80	A N
ATOM	693	CA	LEU	A	94	-12.335	53.032	-14.967	1.00	16.47	A C
ATOM	694	CB	LEU	A	94	-12.988	53.105	-16.367	1.00	15.64	A C
ATOM	695	CG	LEU	A	94	-13.701	54.304	-17.036	1.00	29.79	A C
ATOM	696	CD1	LEU	A	94	-14.946	53.804	-17.787	1.00	18.05	A C
ATOM	697	CD2	LEU	A	94	-14.060	55.394	-16.040	1.00	24.59	A C
ATOM	698	C	LEU	A	94	-11.621	54.334	-14.631	1.00	16.59	A C
ATOM	699	O	LEU	A	94	-12.072	55.100	-13.778	1.00	13.62	A O
ATOM	700	N	ILE	A	95	-10.474	54.551	-15.273	1.00	18.80	A N
ATOM	701	CA	ILE	A	95	-9.716	55.787	-15.077	1.00	20.22	A C
ATOM	702	CB	ILE	A	95	-8.205	55.589	-15.290	1.00	22.24	A C
ATOM	703	CG2	ILE	A	95	-7.489	56.938	-15.139	1.00	21.97	A C

Table 8

ATOM	704	CG1	ILE	A	95	-7.667	54.565	-14.293	1.00	17.67	A	C
ATOM	705	CD1	ILE	A	95	-6.323	53.940	-14.715	1.00	21.13	A	C
ATOM	706	C	ILE	A	95	-10.206	56.675	-16.196	1.00	17.37	A	C
ATOM	707	O	ILE	A	95	-10.102	56.321	-17.369	1.00	16.82	A	O
ATOM	708	N	GLY	A	96	-10.755	57.824	-15.848	1.00	23.65	A	N
ATOM	709	CA	GLY	A	96	-11.260	58.687	-16.892	1.00	23.66	A	C
ATOM	710	C	GLY	A	96	-12.595	59.231	-16.474	1.00	25.43	A	C
ATOM	711	O	GLY	A	96	-13.106	58.904	-15.389	1.00	21.15	A	O
ATOM	712	N	THR	A	97	-13.186	60.041	-17.343	1.00	27.18	A	N
ATOM	713	CA	THR	A	97	-14.449	60.657	-17.013	1.00	27.08	A	C
ATOM	714	CB	THR	A	97	-14.168	62.085	-16.522	1.00	30.52	A	C
ATOM	715	OG1	THR	A	97	-15.383	62.691	-16.079	1.00	43.52	A	O
ATOM	716	CG2	THR	A	97	-13.549	62.921	-17.638	1.00	27.20	A	C
ATOM	717	C	THR	A	97	-15.496	60.672	-18.138	1.00	25.62	A	C
ATOM	718	O	THR	A	97	-16.073	61.701	-18.427	1.00	29.57	A	O
ATOM	719	N	PRO	A	98	-15.758	59.524	-18.783	1.00	23.20	A	N
ATOM	720	CD	PRO	A	98	-15.174	58.180	-18.603	1.00	19.99	A	C
ATOM	721	CA	PRO	A	98	-16.766	59.535	-19.854	1.00	18.95	A	C
ATOM	722	CB	PRO	A	98	-16.596	58.172	-20.512	1.00	15.21	A	C
ATOM	723	CG	PRO	A	98	-16.164	57.290	-19.336	1.00	18.60	A	C
ATOM	724	C	PRO	A	98	-18.147	59.715	-19.248	1.00	22.47	A	C
ATOM	725	O	PRO	A	98	-18.358	59.401	-18.065	1.00	20.11	A	O
ATOM	726	N	ASN	A	99	-19.095	60.219	-20.036	1.00	18.10	A	N
ATOM	727	CA	ASN	A	99	-20.422	60.425	-19.483	1.00	21.18	A	C
ATOM	728	CB	ASN	A	99	-21.044	61.759	-19.946	1.00	16.53	A	C
ATOM	729	CG	ASN	A	99	-21.195	61.865	-21.466	1.00	19.13	A	C
ATOM	730	OD1	ASN	A	99	-21.276	60.867	-22.164	1.00	15.40	A	O
ATOM	731	ND2	ASN	A	99	-21.252	63.103	-21.975	1.00	20.27	A	N
ATOM	732	C	ASN	A	99	-21.321	59.252	-19.808	1.00	19.02	A	C
ATOM	733	O	ASN	A	99	-20.896	58.288	-20.452	1.00	15.62	A	O
ATOM	734	N	GLU	A	100	-22.557	59.319	-19.350	1.00	18.35	A	N
ATOM	735	CA	GLU	A	100	-23.472	58.212	-19.592	1.00	22.23	A	C
ATOM	736	CB	GLU	A	100	-24.803	58.453	-18.892	1.00	21.99	A	C
ATOM	737	CG	GLU	A	100	-24.663	58.570	-17.397	1.00	20.29	A	C
ATOM	738	CD	GLU	A	100	-24.454	60.002	-16.942	1.00	25.56	A	C
ATOM	739	OE1	GLU	A	100	-25.023	60.351	-15.896	1.00	25.10	A	O
ATOM	740	OE2	GLU	A	100	-23.730	60.768	-17.614	1.00	22.32	A	O
ATOM	741	C	GLU	A	100	-23.725	57.881	-21.039	1.00	19.25	A	C
ATOM	742	O	GLU	A	100	-23.820	56.710	-21.389	1.00	17.78	A	O
ATOM	743	N	GLN	A	101	-23.834	58.892	-21.894	1.00	22.69	A	N
ATOM	744	CA	GLN	A	101	-24.079	58.615	-23.319	1.00	17.42	A	C
ATOM	745	CB	GLN	A	101	-24.267	59.922	-24.086	1.00	22.25	A	C
ATOM	746	CG	GLN	A	101	-24.343	59.716	-25.598	1.00	22.76	A	C
ATOM	747	CD	GLN	A	101	-24.456	61.027	-26.385	1.00	23.19	A	C
ATOM	748	OE1	GLN	A	101	-24.569	62.121	-25.812	1.00	26.36	A	O
ATOM	749	NE2	GLN	A	101	-24.410	60.913	-27.702	1.00	19.46	A	N
ATOM	750	C	GLN	A	101	-22.951	57.812	-23.968	1.00	16.98	A	C
ATOM	751	O	GLN	A	101	-23.181	56.855	-24.707	1.00	20.98	A	O
ATOM	752	N	LYS	A	102	-21.713	58.201	-23.708	1.00	17.17	A	N
ATOM	753	CA	LYS	A	102	-20.590	57.488	-24.290	1.00	16.43	A	C
ATOM	754	CB	LYS	A	102	-19.292	58.184	-23.900	1.00	17.11	A	C
ATOM	755	CG	LYS	A	102	-18.067	57.447	-24.314	1.00	21.10	A	C
ATOM	756	CD	LYS	A	102	-16.819	58.226	-23.941	1.00	28.59	A	C
ATOM	757	CE	LYS	A	102	-16.652	59.479	-24.768	1.00	34.19	A	C
ATOM	758	NZ	LYS	A	102	-16.375	59.154	-26.199	1.00	36.82	A	N
ATOM	759	C	LYS	A	102	-20.560	56.034	-23.817	1.00	14.39	A	C
ATOM	760	O	LYS	A	102	-20.288	55.111	-24.595	1.00	17.89	A	O

Table 8

ATOM	761	N	VAL	A	103	-20.811	55.832	-22.534	1.00	14.64	A N
ATOM	762	CA	VAL	A	103	-20.813	54.477	-21.990	1.00	15.51	A C
ATOM	763	CB	VAL	A	103	-20.893	54.497	-20.447	1.00	13.70	A C
ATOM	764	CG1	VAL	A	103	-21.126	53.082	-19.909	1.00	13.59	A C
ATOM	765	CG2	VAL	A	103	-19.562	55.035	-19.877	1.00	16.61	A C
ATOM	766	C	VAL	A	103	-21.975	53.658	-22.563	1.00	17.00	A C
ATOM	767	O	VAL	A	103	-21.789	52.501	-22.939	1.00	14.87	A O
ATOM	768	N	SER	A	104	-23.161	54.261	-22.663	1.00	17.45	A N
ATOM	769	CA	SER	A	104	-24.313	53.535	-23.190	1.00	20.90	A C
ATOM	770	CB	SER	A	104	-25.594	54.368	-23.008	1.00	23.40	A C
ATOM	771	OG	SER	A	104	-25.605	55.429	-23.935	1.00	34.60	A O
ATOM	772	C	SER	A	104	-24.128	53.166	-24.665	1.00	19.63	A C
ATOM	773	O	SER	A	104	-24.570	52.106	-25.119	1.00	18.28	A O
ATOM	774	N	GLU	A	105	-23.456	54.021	-25.427	1.00	19.77	A N
ATOM	775	CA	GLU	A	105	-23.235	53.702	-26.831	1.00	21.51	A C
ATOM	776	CB	GLU	A	105	-22.706	54.932	-27.590	1.00	22.80	A C
ATOM	777	CG	GLU	A	105	-23.778	56.009	-27.791	1.00	31.32	A C
ATOM	778	CD	GLU	A	105	-23.234	57.263	-28.451	1.00	34.45	A C
ATOM	779	OE1	GLU	A	105	-24.029	58.180	-28.732	1.00	38.32	A O
ATOM	780	OE2	GLU	A	105	-22.012	57.329	-28.684	1.00	39.78	A O
ATOM	781	C	GLU	A	105	-22.259	52.540	-26.953	1.00	21.24	A C
ATOM	782	O	GLU	A	105	-22.443	51.661	-27.811	1.00	17.44	A O
ATOM	783	N	ALA	A	106	-21.223	52.527	-26.103	1.00	15.83	A N
ATOM	784	CA	ALA	A	106	-20.240	51.435	-26.139	1.00	19.18	A C
ATOM	785	CB	ALA	A	106	-19.048	51.726	-25.183	1.00	16.75	A C
ATOM	786	C	ALA	A	106	-20.920	50.125	-25.729	1.00	18.11	A C
ATOM	787	O	ALA	A	106	-20.640	49.061	-26.274	1.00	21.00	A O
ATOM	788	N	TRP	A	107	-21.811	50.229	-24.754	1.00	19.01	A N
ATOM	789	CA	TRP	A	107	-22.556	49.087	-24.244	1.00	18.72	A C
ATOM	790	CB	TRP	A	107	-23.410	49.553	-23.053	1.00	13.41	A C
ATOM	791	CG	TRP	A	107	-24.318	48.500	-22.411	1.00	17.03	A C
ATOM	792	CD2	TRP	A	107	-25.147	48.700	-21.267	1.00	14.52	A C
ATOM	793	CE2	TRP	A	107	-25.872	47.502	-21.049	1.00	18.87	A C
ATOM	794	CE3	TRP	A	107	-25.349	49.780	-20.399	1.00	13.82	A C
ATOM	795	CD1	TRP	A	107	-24.558	47.216	-22.837	1.00	18.73	A C
ATOM	796	NE1	TRP	A	107	-25.496	46.606	-22.015	1.00	15.33	A N
ATOM	797	CZ2	TRP	A	107	-26.789	47.363	-19.996	1.00	13.38	A C
ATOM	798	CZ3	TRP	A	107	-26.253	49.639	-19.351	1.00	17.78	A C
ATOM	799	CH2	TRP	A	107	-26.961	48.435	-19.163	1.00	14.61	A C
ATOM	800	C	TRP	A	107	-23.440	48.548	-25.382	1.00	20.70	A C
ATOM	801	O	TRP	A	107	-23.398	47.354	-25.704	1.00	20.68	A O
ATOM	802	N	LEU	A	108	-24.226	49.431	-25.995	1.00	21.75	A N
ATOM	803	CA	LEU	A	108	-25.106	49.018	-27.088	1.00	20.32	A C
ATOM	804	CB	LEU	A	108	-25.797	50.238	-27.719	1.00	21.25	A C
ATOM	805	CG	LEU	A	108	-26.881	49.862	-28.743	1.00	28.78	A C
ATOM	806	CD1	LEU	A	108	-27.956	49.053	-28.030	1.00	27.56	A C
ATOM	807	CD2	LEU	A	108	-27.506	51.113	-29.388	1.00	24.48	A C
ATOM	808	C	LEU	A	108	-24.310	48.274	-28.148	1.00	23.63	A C
ATOM	809	O	LEU	A	108	-24.717	47.203	-28.623	1.00	24.77	A O
ATOM	810	N	ALA	A	109	-23.169	48.832	-28.530	1.00	21.93	A N
ATOM	811	CA	ALA	A	109	-22.337	48.180	-29.537	1.00	19.70	A C
ATOM	812	CB	ALA	A	109	-21.137	49.086	-29.902	1.00	18.67	A C
ATOM	813	C	ALA	A	109	-21.840	46.815	-29.037	1.00	23.69	A C
ATOM	814	O	ALA	A	109	-21.724	45.849	-29.819	1.00	17.50	A O
ATOM	815	N	SER	A	110	-21.543	46.731	-27.737	1.00	17.98	A N
ATOM	816	CA	SER	A	110	-21.070	45.473	-27.170	1.00	21.19	A C
ATOM	817	CB	SER	A	110	-20.608	45.671	-25.721	1.00	21.44	A C

Table 8

ATOM	818	OG	SER	A	110	-19.417	46.445	-25.671	1.00	21.50	A O
ATOM	819	C	SER	A	110	-22.175	44.406	-27.232	1.00	17.66	A C
ATOM	820	O	SER	A	110	-21.886	43.224	-27.364	1.00	20.28	A O
ATOM	821	N	MSE	A	111	-23.433	44.814	-27.124	1.00	18.65	A N
ATOM	822	CA	MSE	A	111	-24.522	43.838	-27.208	1.00	20.79	A C
ATOM	823	CB	MSE	A	111	-25.848	44.522	-26.876	1.00	18.12	A C
ATOM	824	CG	MSE	A	111	-25.904	45.033	-25.436	1.00	26.99	A C
ATOM	825	SE	MSE	A	111	-25.717	43.613	-24.073	1.00	31.90	A S
ATOM	826	CE	MSE	A	111	-23.784	43.448	-23.919	1.00	20.05	A C
ATOM	827	C	MSE	A	111	-24.546	43.212	-28.623	1.00	24.63	A C
ATOM	828	O	MSE	A	111	-24.696	41.989	-28.774	1.00	24.17	A O
ATOM	829	N	GLN	A	112	-24.374	44.048	-29.652	1.00	24.90	A N
ATOM	830	CA	GLN	A	112	-24.333	43.574	-31.041	1.00	28.07	A C
ATOM	831	CB	GLN	A	112	-24.086	44.743	-32.003	1.00	32.23	A C
ATOM	832	CG	GLN	A	112	-25.260	45.696	-32.153	1.00	36.19	A C
ATOM	833	CD	GLN	A	112	-26.497	44.995	-32.704	1.00	44.29	A C
ATOM	834	OE1	GLN	A	112	-26.396	43.929	-33.323	1.00	43.14	A O
ATOM	835	NE2	GLN	A	112	-27.669	45.598	-32.495	1.00	44.56	A N
ATOM	836	C	GLN	A	112	-23.195	42.567	-31.190	1.00	27.40	A C
ATOM	837	O	GLN	A	112	-23.331	41.533	-31.847	1.00	23.04	A O
ATOM	838	N	ASP	A	113	-22.066	42.884	-30.570	1.00	24.54	A N
ATOM	839	CA	ASP	A	113	-20.903	42.008	-30.596	1.00	23.05	A C
ATOM	840	CB	ASP	A	113	-19.757	42.643	-29.831	1.00	24.99	A C
ATOM	841	CG	ASP	A	113	-19.173	43.813	-30.555	1.00	32.05	A C
ATOM	842	OD1	ASP	A	113	-18.458	44.606	-29.916	1.00	33.29	A O
ATOM	843	OD2	ASP	A	113	-19.428	43.933	-31.773	1.00	33.64	A O
ATOM	844	C	ASP	A	113	-21.201	40.668	-29.961	1.00	24.10	A C
ATOM	845	O	ASP	A	113	-20.694	39.632	-30.402	1.00	19.21	A O
ATOM	846	N	VAL	A	114	-21.982	40.686	-28.887	1.00	20.19	A N
ATOM	847	CA	VAL	A	114	-22.301	39.432	-28.218	1.00	23.09	A C
ATOM	848	CB	VAL	A	114	-23.116	39.663	-26.928	1.00	22.46	A C
ATOM	849	CG1	VAL	A	114	-23.677	38.342	-26.432	1.00	18.79	A C
ATOM	850	CG2	VAL	A	114	-22.221	40.284	-25.853	1.00	16.29	A C
ATOM	851	C	VAL	A	114	-23.102	38.572	-29.191	1.00	23.42	A C
ATOM	852	O	VAL	A	114	-22.867	37.372	-29.312	1.00	20.18	A O
ATOM	853	N	LEU	A	115	-24.035	39.197	-29.897	1.00	25.17	A N
ATOM	854	CA	LEU	A	115	-24.847	38.465	-30.869	1.00	30.70	A C
ATOM	855	CB	LEU	A	115	-25.927	39.389	-31.444	1.00	27.70	A C
ATOM	856	CG	LEU	A	115	-27.330	39.317	-30.850	1.00	33.84	A C
ATOM	857	CD1	LEU	A	115	-27.288	38.797	-29.435	1.00	31.77	A C
ATOM	858	CD2	LEU	A	115	-27.988	40.698	-30.930	1.00	33.77	A C
ATOM	859	C	LEU	A	115	-23.972	37.914	-31.990	1.00	31.05	A C
ATOM	860	O	LEU	A	115	-24.329	36.939	-32.641	1.00	30.19	A O
ATOM	861	N	GLY	A	116	-22.818	38.540	-32.202	1.00	31.92	A N
ATOM	862	CA	GLY	A	116	-21.907	38.107	-33.248	1.00	26.72	A C
ATOM	863	C	GLY	A	116	-21.127	36.852	-32.892	1.00	32.02	A C
ATOM	864	O	GLY	A	116	-20.483	36.251	-33.764	1.00	22.71	A O
ATOM	865	N	VAL	A	117	-21.156	36.470	-31.611	1.00	24.48	A N
ATOM	866	CA	VAL	A	117	-20.486	35.258	-31.151	1.00	20.41	A C
ATOM	867	CB	VAL	A	117	-20.119	35.368	-29.644	1.00	22.22	A C
ATOM	868	CG1	VAL	A	117	-19.533	34.046	-29.146	1.00	16.67	A C
ATOM	869	CG2	VAL	A	117	-19.082	36.478	-29.461	1.00	18.28	A C
ATOM	870	C	VAL	A	117	-21.501	34.148	-31.384	1.00	24.72	A C
ATOM	871	O	VAL	A	117	-22.456	34.010	-30.627	1.00	29.34	A O
ATOM	872	N	GLN	A	118	-21.297	33.356	-32.432	1.00	30.76	A N
ATOM	873	CA	GLN	A	118	-22.262	32.313	-32.803	1.00	38.92	A C
ATOM	874	CB	GLN	A	118	-22.119	31.967	-34.293	1.00	37.70	A C

Table 8

ATOM	875	CG	GLN	A	118	-22.856	32.957	-35.176	1.00	46.69	A C
ATOM	876	CD	GLN	A	118	-22.709	32.690	-36.668	1.00	52.91	A C
ATOM	877	OE1	GLN	A	118	-22.941	31.575	-37.143	1.00	57.27	A O
ATOM	878	NE2	GLN	A	118	-22.334	33.723	-37.418	1.00	55.52	A N
ATOM	879	C	GLN	A	118	-22.363	31.036	-31.988	1.00	42.02	A C
ATOM	880	O	GLN	A	118	-23.467	30.636	-31.625	1.00	45.66	A O
ATOM	881	N	ASP	A	119	-21.252	30.369	-31.708	1.00	44.31	A N
ATOM	882	CA	ASP	A	119	-21.360	29.162	-30.903	1.00	49.31	A C
ATOM	883	CB	ASP	A	119	-21.091	27.917	-31.749	1.00	59.94	A C
ATOM	884	CG	ASP	A	119	-19.686	27.870	-32.278	1.00	71.36	A C
ATOM	885	OD1	ASP	A	119	-18.747	27.735	-31.463	1.00	77.85	A O
ATOM	886	OD2	ASP	A	119	-19.521	27.973	-33.511	1.00	79.56	A O
ATOM	887	C	ASP	A	119	-20.417	29.226	-29.707	1.00	46.42	A C
ATOM	888	O	ASP	A	119	-19.333	29.808	-29.788	1.00	45.24	A O
ATOM	889	N	GLN	A	120	-20.849	28.627	-28.603	1.00	41.03	A N
ATOM	890	CA	GLN	A	120	-20.094	28.622	-27.360	1.00	42.12	A C
ATOM	891	CB	GLN	A	120	-20.905	27.925	-26.280	1.00	37.12	A C
ATOM	892	CG	GLN	A	120	-20.366	28.093	-24.874	1.00	33.75	A C
ATOM	893	CD	GLN	A	120	-21.330	27.546	-23.834	1.00	29.28	A C
ATOM	894	OE1	GLN	A	120	-22.459	28.027	-23.698	1.00	25.82	A O
ATOM	895	NE2	GLN	A	120	-20.893	26.531	-23.102	1.00	28.68	A N
ATOM	896	C	GLN	A	120	-18.745	27.950	-27.510	1.00	45.18	A C
ATOM	897	O	GLN	A	120	-17.768	28.356	-26.877	1.00	46.15	A O
ATOM	898	N	ALA	A	121	-18.701	26.922	-28.352	1.00	46.42	A N
ATOM	899	CA	ALA	A	121	-17.472	26.186	-28.616	1.00	48.93	A C
ATOM	900	CB	ALA	A	121	-17.769	24.986	-29.524	1.00	48.66	A C
ATOM	901	C	ALA	A	121	-16.451	27.110	-29.281	1.00	49.30	A C
ATOM	902	O	ALA	A	121	-15.260	26.817	-29.310	1.00	51.02	A O
ATOM	903	N	SER	A	122	-16.931	28.227	-29.813	1.00	49.68	A N
ATOM	904	CA	SER	A	122	-16.080	29.205	-30.478	1.00	47.85	A C
ATOM	905	CB	SER	A	122	-16.933	30.101	-31.380	1.00	50.82	A C
ATOM	906	OG	SER	A	122	-16.207	31.227	-31.847	1.00	42.63	A O
ATOM	907	C	SER	A	122	-15.326	30.070	-29.474	1.00	50.30	A C
ATOM	908	O	SER	A	122	-14.342	30.722	-29.824	1.00	49.31	A O
ATOM	909	N	ILE	A	123	-15.794	30.088	-28.231	1.00	46.26	A N
ATOM	910	CA	ILE	A	123	-15.147	30.881	-27.198	1.00	42.56	A C
ATOM	911	CB	ILE	A	123	-16.135	31.166	-26.050	1.00	43.88	A C
ATOM	912	CG2	ILE	A	123	-15.468	32.029	-24.990	1.00	41.64	A C
ATOM	913	CG1	ILE	A	123	-17.378	31.858	-26.621	1.00	38.51	A C
ATOM	914	CD1	ILE	A	123	-18.492	32.106	-25.617	1.00	39.51	A C
ATOM	915	C	ILE	A	123	-13.950	30.067	-26.717	1.00	42.12	A C
ATOM	916	O	ILE	A	123	-14.106	29.030	-26.084	1.00	44.65	A O
ATOM	917	N	PRO	A	124	-12.732	30.543	-27.012	1.00	41.46	A N
ATOM	918	CD	PRO	A	124	-12.517	31.880	-27.582	1.00	40.34	A C
ATOM	919	CA	PRO	A	124	-11.441	29.929	-26.675	1.00	40.50	A C
ATOM	920	CB	PRO	A	124	-10.419	30.911	-27.264	1.00	39.07	A C
ATOM	921	CG	PRO	A	124	-11.203	31.699	-28.270	1.00	43.14	A C
ATOM	922	C	PRO	A	124	-11.121	29.636	-25.213	1.00	39.36	A C
ATOM	923	O	PRO	A	124	-10.746	28.516	-24.861	1.00	38.30	A O
ATOM	924	N	GLU	A	125	-11.268	30.646	-24.366	1.00	39.36	A N
ATOM	925	CA	GLU	A	125	-10.909	30.510	-22.963	1.00	38.59	A C
ATOM	926	CB	GLU	A	125	-10.740	31.902	-22.340	1.00	40.95	A C
ATOM	927	CG	GLU	A	125	-12.042	32.601	-21.966	1.00	45.99	A C
ATOM	928	CD	GLU	A	125	-12.755	33.242	-23.146	1.00	50.26	A C
ATOM	929	OE1	GLU	A	125	-13.772	33.927	-22.895	1.00	48.99	A O
ATOM	930	OE2	GLU	A	125	-12.306	33.067	-24.306	1.00	49.37	A O
ATOM	931	C	GLU	A	125	-11.790	29.667	-22.055	1.00	37.29	A C

Table 8

ATOM	932	O	GLU	A	125	-11.533	29.598	-20.853	1.00	35.75	A O
ATOM	933	N	LEU	A	126	-12.819	29.024	-22.597	1.00	35.59	A N
ATOM	934	CA	LEU	A	126	-13.688	28.219	-21.746	1.00	32.92	A C
ATOM	935	CB	LEU	A	126	-15.076	28.116	-22.385	1.00	32.80	A C
ATOM	936	CG	LEU	A	126	-15.740	29.466	-22.697	1.00	34.00	A C
ATOM	937	CD1	LEU	A	126	-17.176	29.243	-23.164	1.00	39.14	A C
ATOM	938	CD2	LEU	A	126	-15.742	30.353	-21.466	1.00	36.44	A C
ATOM	939	C	LEU	A	126	-13.094	26.824	-21.459	1.00	32.85	A C
ATOM	940	O	LEU	A	126	-13.585	25.798	-21.941	1.00	29.13	A O
ATOM	941	N	ASN	A	127	-12.035	26.800	-20.656	1.00	31.13	A N
ATOM	942	CA	ASN	A	127	-11.354	25.550	-20.307	1.00	31.19	A C
ATOM	943	CB	ASN	A	127	-10.213	25.305	-21.279	1.00	28.54	A C
ATOM	944	CG	ASN	A	127	-9.224	26.443	-21.284	1.00	28.18	A C
ATOM	945	OD1	ASN	A	127	-8.441	26.598	-20.348	1.00	27.01	A O
ATOM	946	ND2	ASN	A	127	-9.270	27.266	-22.327	1.00	31.61	A N
ATOM	947	C	ASN	A	127	-10.807	25.674	-18.893	1.00	30.82	A C
ATOM	948	O	ASN	A	127	-10.796	26.769	-18.318	1.00	25.86	A O
ATOM	949	N	ILE	A	128	-10.341	24.557	-18.340	1.00	31.66	A N
ATOM	950	CA	ILE	A	128	-9.832	24.535	-16.972	1.00	31.24	A C
ATOM	951	CB	ILE	A	128	-9.531	23.088	-16.507	1.00	35.15	A C
ATOM	952	CG2	ILE	A	128	-10.801	22.252	-16.541	1.00	35.55	A C
ATOM	953	CG1	ILE	A	128	-8.443	22.474	-17.392	1.00	34.29	A C
ATOM	954	CD1	ILE	A	128	-8.048	21.082	-16.968	1.00	37.20	A C
ATOM	955	C	ILE	A	128	-8.579	25.374	-16.741	1.00	29.40	A C
ATOM	956	O	ILE	A	128	-8.198	25.637	-15.600	1.00	29.01	A O
ATOM	957	N	TYR	A	129	-7.942	25.801	-17.818	1.00	27.59	A N
ATOM	958	CA	TYR	A	129	-6.731	26.587	-17.689	1.00	29.03	A C
ATOM	959	CB	TYR	A	129	-5.799	26.272	-18.863	1.00	32.14	A C
ATOM	960	CG	TYR	A	129	-5.429	24.812	-18.936	1.00	35.82	A C
ATOM	961	CD1	TYR	A	129	-4.463	24.283	-18.088	1.00	36.01	A C
ATOM	962	CE1	TYR	A	129	-4.173	22.927	-18.088	1.00	42.03	A C
ATOM	963	CD2	TYR	A	129	-6.097	23.945	-19.800	1.00	38.48	A C
ATOM	964	CE2	TYR	A	129	-5.816	22.586	-19.810	1.00	42.08	A C
ATOM	965	CZ	TYR	A	129	-4.852	22.081	-18.947	1.00	44.32	A C
ATOM	966	OH	TYR	A	129	-4.578	20.728	-18.916	1.00	48.81	A O
ATOM	967	C	TYR	A	129	-6.982	28.082	-17.632	1.00	29.04	A C
ATOM	968	O	TYR	A	129	-6.317	28.796	-16.883	1.00	31.29	A O
ATOM	969	N	GLN	A	130	-7.964	28.543	-18.400	1.00	26.84	A N
ATOM	970	CA	GLN	A	130	-8.254	29.963	-18.508	1.00	27.73	A C
ATOM	971	CB	GLN	A	130	-8.291	30.339	-19.983	1.00	29.98	A C
ATOM	972	CG	GLN	A	130	-6.977	30.147	-20.704	1.00	30.55	A C
ATOM	973	CD	GLN	A	130	-7.108	30.404	-22.184	1.00	29.47	A C
ATOM	974	OE1	GLN	A	130	-7.729	29.628	-22.907	1.00	28.02	A O
ATOM	975	NE2	GLN	A	130	-6.535	31.504	-22.641	1.00	33.45	A N
ATOM	976	C	GLN	A	130	-9.523	30.480	-17.855	1.00	27.35	A C
ATOM	977	O	GLN	A	130	-9.789	31.674	-17.907	1.00	28.65	A O
ATOM	978	N	CYS	A	131	-10.298	29.596	-17.246	1.00	28.80	A N
ATOM	979	CA	CYS	A	131	-11.561	29.971	-16.615	1.00	24.11	A C
ATOM	980	CB	CYS	A	131	-12.709	29.631	-17.567	1.00	27.50	A C
ATOM	981	SG	CYS	A	131	-14.354	30.018	-16.939	1.00	28.87	A S
ATOM	982	C	CYS	A	131	-11.743	29.224	-15.290	1.00	25.80	A C
ATOM	983	O	CYS	A	131	-11.385	28.050	-15.182	1.00	23.64	A O
ATOM	984	N	GLY	A	132	-12.317	29.902	-14.295	1.00	23.24	A N
ATOM	985	CA	GLY	A	132	-12.523	29.297	-12.988	1.00	21.35	A C
ATOM	986	C	GLY	A	132	-13.640	28.270	-12.815	1.00	22.87	A C
ATOM	987	O	GLY	A	132	-13.592	27.470	-11.867	1.00	22.71	A O
ATOM	988	N	SER	A	133	-14.641	28.308	-13.699	1.00	17.16	A N

Table 8

ATOM	989	CA	SER	A	133	-15.784	27.392	-13.672	1.00	19.46	A C
ATOM	990	CB	SER	A	133	-16.937	28.028	-12.897	1.00	18.79	A C
ATOM	991	OG	SER	A	133	-16.609	28.190	-11.521	1.00	21.15	A O
ATOM	992	C	SER	A	133	-16.157	27.220	-15.135	1.00	18.98	A C
ATOM	993	O	SER	A	133	-17.212	27.672	-15.577	1.00	20.05	A O
ATOM	994	N	TYR	A	134	-15.291	26.549	-15.887	1.00	21.13	A N
ATOM	995	CA	TYR	A	134	-15.498	26.451	-17.320	1.00	26.00	A C
ATOM	996	CB	TYR	A	134	-14.288	25.763	-17.991	1.00	31.46	A C
ATOM	997	CG	TYR	A	134	-14.334	24.259	-18.060	1.00	34.72	A C
ATOM	998	CD1	TYR	A	134	-14.063	23.480	-16.939	1.00	37.56	A C
ATOM	999	CE1	TYR	A	134	-14.094	22.086	-17.009	1.00	42.33	A C
ATOM	1000	CD2	TYR	A	134	-14.639	23.610	-19.262	1.00	39.12	A C
ATOM	1001	CE2	TYR	A	134	-14.671	22.214	-19.344	1.00	41.40	A C
ATOM	1002	CZ	TYR	A	134	-14.401	21.458	-18.214	1.00	44.09	A C
ATOM	1003	OH	TYR	A	134	-14.469	20.079	-18.273	1.00	46.97	A O
ATOM	1004	C	TYR	A	134	-16.810	25.886	-17.859	1.00	28.26	A C
ATOM	1005	O	TYR	A	134	-17.166	26.175	-19.002	1.00	21.52	A O
ATOM	1006	N	THR	A	135	-17.546	25.116	-17.070	1.00	23.69	A N
ATOM	1007	CA	THR	A	135	-18.814	24.604	-17.582	1.00	29.57	A C
ATOM	1008	CB	THR	A	135	-19.070	23.148	-17.130	1.00	28.30	A C
ATOM	1009	OG1	THR	A	135	-19.190	23.107	-15.711	1.00	30.04	A O
ATOM	1010	CG2	THR	A	135	-17.924	22.251	-17.558	1.00	32.25	A C
ATOM	1011	C	THR	A	135	-20.011	25.466	-17.156	1.00	32.34	A C
ATOM	1012	O	THR	A	135	-21.129	25.279	-17.656	1.00	27.80	A O
ATOM	1013	N	GLU	A	136	-19.794	26.416	-16.247	1.00	26.82	A N
ATOM	1014	CA	GLU	A	136	-20.902	27.268	-15.800	1.00	25.76	A C
ATOM	1015	CB	GLU	A	136	-20.573	27.869	-14.425	1.00	26.27	A C
ATOM	1016	CG	GLU	A	136	-21.726	28.640	-13.792	1.00	27.76	A C
ATOM	1017	CD	GLU	A	136	-22.748	27.722	-13.152	1.00	31.95	A C
ATOM	1018	OE1	GLU	A	136	-22.628	26.489	-13.339	1.00	25.93	A O
ATOM	1019	OE2	GLU	A	136	-23.666	28.233	-12.468	1.00	30.24	A O
ATOM	1020	C	GLU	A	136	-21.150	28.380	-16.834	1.00	25.22	A C
ATOM	1021	O	GLU	A	136	-21.042	29.573	-16.537	1.00	25.34	A O
ATOM	1022	N	HIS	A	137	-21.497	27.977	-18.051	1.00	23.63	A N
ATOM	1023	CA	HIS	A	137	-21.722	28.922	-19.130	1.00	22.62	A C
ATOM	1024	CB	HIS	A	137	-20.542	28.886	-20.103	1.00	23.40	A C
ATOM	1025	CG	HIS	A	137	-19.331	29.604	-19.604	1.00	22.29	A C
ATOM	1026	CD2	HIS	A	137	-18.154	29.142	-19.118	1.00	22.27	A C
ATOM	1027	ND1	HIS	A	137	-19.252	30.980	-19.563	1.00	19.18	A N
ATOM	1028	CE1	HIS	A	137	-18.073	31.334	-19.079	1.00	16.40	A C
ATOM	1029	NE2	HIS	A	137	-17.389	30.238	-18.800	1.00	21.89	A N
ATOM	1030	C	HIS	A	137	-22.972	28.668	-19.925	1.00	25.85	A C
ATOM	1031	O	HIS	A	137	-23.451	27.531	-20.006	1.00	22.60	A O
ATOM	1032	N	SER	A	138	-23.486	29.736	-20.529	1.00	19.37	A N
ATOM	1033	CA	SER	A	138	-24.663	29.639	-21.379	1.00	20.09	A C
ATOM	1034	CB	SER	A	138	-25.933	29.688	-20.546	1.00	20.72	A C
ATOM	1035	OG	SER	A	138	-27.072	29.765	-21.384	1.00	22.36	A O
ATOM	1036	C	SER	A	138	-24.682	30.769	-22.403	1.00	21.14	A C
ATOM	1037	O	SER	A	138	-25.155	31.863	-22.106	1.00	16.65	A O
ATOM	1038	N	LEU	A	139	-24.151	30.508	-23.599	1.00	19.63	A N
ATOM	1039	CA	LEU	A	139	-24.126	31.523	-24.662	1.00	24.92	A C
ATOM	1040	CB	LEU	A	139	-23.364	30.991	-25.888	1.00	24.14	A C
ATOM	1041	CG	LEU	A	139	-22.615	32.006	-26.770	1.00	31.01	A C
ATOM	1042	CD1	LEU	A	139	-22.781	31.646	-28.227	1.00	25.02	A C
ATOM	1043	CD2	LEU	A	139	-23.125	33.410	-26.545	1.00	24.77	A C
ATOM	1044	C	LEU	A	139	-25.578	31.850	-25.042	1.00	24.01	A C
ATOM	1045	O	LEU	A	139	-25.901	32.961	-25.475	1.00	23.08	A O

Table 8

ATOM	1046	N	GLU	A	140	-26.453	30.866	-24.856	1.00	21.00	A N
ATOM	1047	CA	GLU	A	140	-27.868	31.049	-25.150	1.00	22.63	A C
ATOM	1048	CB	GLU	A	140	-28.623	29.724	-24.943	1.00	22.83	A C
ATOM	1049	CG	GLU	A	140	-30.152	29.830	-24.971	1.00	26.00	A C
ATOM	1050	CD	GLU	A	140	-30.845	28.453	-24.875	1.00	29.79	A C
ATOM	1051	OE1	GLU	A	140	-32.060	28.418	-24.639	1.00	30.06	A O
ATOM	1052	OE2	GLU	A	140	-30.179	27.407	-25.035	1.00	34.23	A O
ATOM	1053	C	GLU	A	140	-28.461	32.150	-24.263	1.00	20.27	A C
ATOM	1054	O	GLU	A	140	-29.119	33.069	-24.757	1.00	22.00	A O
ATOM	1055	N	ASP	A	141	-28.246	32.074	-22.952	1.00	18.31	A N
ATOM	1056	CA	ASP	A	141	-28.777	33.123	-22.073	1.00	21.49	A C
ATOM	1057	CB	ASP	A	141	-28.487	32.763	-20.618	1.00	24.75	A C
ATOM	1058	CG	ASP	A	141	-29.395	31.664	-20.102	1.00	36.12	A C
ATOM	1059	OD1	ASP	A	141	-29.857	30.839	-20.920	1.00	43.71	A O
ATOM	1060	OD2	ASP	A	141	-29.639	31.616	-18.881	1.00	36.38	A O
ATOM	1061	C	ASP	A	141	-28.164	34.511	-22.412	1.00	17.42	A C
ATOM	1062	O	ASP	A	141	-28.845	35.538	-22.398	1.00	20.69	A O
ATOM	1063	N	ALA	A	142	-26.872	34.525	-22.699	1.00	18.95	A N
ATOM	1064	CA	ALA	A	142	-26.181	35.772	-23.044	1.00	22.73	A C
ATOM	1065	CB	ALA	A	142	-24.703	35.488	-23.226	1.00	16.10	A C
ATOM	1066	C	ALA	A	142	-26.788	36.389	-24.329	1.00	21.21	A C
ATOM	1067	O	ALA	A	142	-26.998	37.609	-24.419	1.00	19.45	A O
ATOM	1068	N	HIS	A	143	-27.067	35.559	-25.330	1.00	20.75	A N
ATOM	1069	CA	HIS	A	143	-27.692	36.085	-26.552	1.00	18.06	A C
ATOM	1070	CB	HIS	A	143	-27.819	34.974	-27.608	1.00	20.98	A C
ATOM	1071	CG	HIS	A	143	-26.534	34.679	-28.309	1.00	23.26	A C
ATOM	1072	CD2	HIS	A	143	-25.372	35.381	-28.355	1.00	26.24	A C
ATOM	1073	ND1	HIS	A	143	-26.340	33.561	-29.091	1.00	24.24	A N
ATOM	1074	CE1	HIS	A	143	-25.116	33.586	-29.588	1.00	28.32	A C
ATOM	1075	NE2	HIS	A	143	-24.506	34.680	-29.156	1.00	22.32	A N
ATOM	1076	C	HIS	A	143	-29.065	36.650	-26.211	1.00	21.19	A C
ATOM	1077	O	HIS	A	143	-29.455	37.732	-26.677	1.00	23.66	A O
ATOM	1078	N	GLU	A	144	-29.813	35.925	-25.391	1.00	18.25	A N
ATOM	1079	CA	GLU	A	144	-31.121	36.408	-25.016	1.00	22.04	A C
ATOM	1080	CB	GLU	A	144	-31.812	35.410	-24.088	1.00	22.33	A C
ATOM	1081	CG	GLU	A	144	-33.141	35.903	-23.545	1.00	34.44	A C
ATOM	1082	CD	GLU	A	144	-33.919	34.817	-22.821	1.00	44.49	A C
ATOM	1083	OE1	GLU	A	144	-33.288	34.018	-22.090	1.00	51.52	A O
ATOM	1084	OE2	GLU	A	144	-35.160	34.766	-22.975	1.00	48.51	A O
ATOM	1085	C	GLU	A	144	-30.985	37.758	-24.318	1.00	23.80	A C
ATOM	1086	O	GLU	A	144	-31.717	38.694	-24.615	1.00	20.44	A O
ATOM	1087	N	ILE	A	145	-30.038	37.864	-23.392	1.00	21.99	A N
ATOM	1088	CA	ILE	A	145	-29.862	39.118	-22.671	1.00	22.69	A C
ATOM	1089	CB	ILE	A	145	-28.722	38.993	-21.606	1.00	20.86	A C
ATOM	1090	CG2	ILE	A	145	-28.497	40.338	-20.903	1.00	17.08	A C
ATOM	1091	CG1	ILE	A	145	-29.127	37.959	-20.548	1.00	18.87	A C
ATOM	1092	CD1	ILE	A	145	-28.002	37.592	-19.578	1.00	17.94	A C
ATOM	1093	C	ILE	A	145	-29.556	40.250	-23.639	1.00	18.17	A C
ATOM	1094	O	ILE	A	145	-30.177	41.324	-23.575	1.00	18.19	A O
ATOM	1095	N	ALA	A	146	-28.613	39.999	-24.540	1.00	17.47	A N
ATOM	1096	CA	ALA	A	146	-28.200	40.987	-25.545	1.00	19.62	A C
ATOM	1097	CB	ALA	A	146	-27.122	40.393	-26.432	1.00	19.42	A C
ATOM	1098	C	ALA	A	146	-29.367	41.498	-26.414	1.00	23.89	A C
ATOM	1099	O	ALA	A	146	-29.511	42.707	-26.625	1.00	21.70	A O
ATOM	1100	N	LYS	A	147	-30.183	40.576	-26.926	1.00	24.01	A N
ATOM	1101	CA	LYS	A	147	-31.340	40.937	-27.758	1.00	27.99	A C
ATOM	1102	CB	LYS	A	147	-32.079	39.675	-28.240	1.00	27.84	A C

Table 8

ATOM	1103	CG	LYS	A	147	-31.230	38.768	-29.110	1.00	38.05	A C
ATOM	1104	CD	LYS	A	147	-32.077	37.725	-29.826	1.00	43.76	A C
ATOM	1105	CE	LYS	A	147	-31.262	36.974	-30.872	1.00	47.35	A C
ATOM	1106	NZ	LYS	A	147	-32.131	36.214	-31.814	1.00	50.56	A N
ATOM	1107	C	LYS	A	147	-32.304	41.804	-26.961	1.00	26.32	A C
ATOM	1108	O	LYS	A	147	-32.862	42.786	-27.458	1.00	28.41	A O
ATOM	1109	N	ASN	A	148	-32.489	41.435	-25.704	1.00	23.61	A N
ATOM	1110	CA	ASN	A	148	-33.377	42.167	-24.833	1.00	26.61	A C
ATOM	1111	CB	ASN	A	148	-33.408	41.507	-23.469	1.00	36.72	A C
ATOM	1112	CG	ASN	A	148	-34.795	41.184	-23.036	1.00	49.48	A C
ATOM	1113	OD1	ASN	A	148	-35.583	42.080	-22.715	1.00	58.93	A O
ATOM	1114	ND2	ASN	A	148	-35.124	39.893	-23.033	1.00	55.20	A N
ATOM	1115	C	ASN	A	148	-32.928	43.607	-24.686	1.00	26.45	A C
ATOM	1116	O	ASN	A	148	-33.731	44.529	-24.840	1.00	25.27	A O
ATOM	1117	N	VAL	A	149	-31.647	43.795	-24.370	1.00	22.34	A N
ATOM	1118	CA	VAL	A	149	-31.093	45.135	-24.203	1.00	21.90	A C
ATOM	1119	CB	VAL	A	149	-29.608	45.069	-23.798	1.00	20.18	A C
ATOM	1120	CG1	VAL	A	149	-28.987	46.466	-23.857	1.00	21.98	A C
ATOM	1121	CG2	VAL	A	149	-29.507	44.534	-22.351	1.00	15.65	A C
ATOM	1122	C	VAL	A	149	-31.255	45.963	-25.475	1.00	22.93	A C
ATOM	1123	O	VAL	A	149	-31.738	47.085	-25.433	1.00	22.41	A O
ATOM	1124	N	ILE	A	150	-30.855	45.396	-26.601	1.00	23.97	A N
ATOM	1125	CA	ILE	A	150	-30.975	46.073	-27.880	1.00	24.96	A C
ATOM	1126	CB	ILE	A	150	-30.453	45.159	-28.996	1.00	24.52	A C
ATOM	1127	CG2	ILE	A	150	-30.953	45.652	-30.360	1.00	30.57	A C
ATOM	1128	CG1	ILE	A	150	-28.919	45.109	-28.932	1.00	21.03	A C
ATOM	1129	CD1	ILE	A	150	-28.280	43.992	-29.775	1.00	20.65	A C
ATOM	1130	C	ILE	A	150	-32.445	46.428	-28.126	1.00	29.20	A C
ATOM	1131	O	ILE	A	150	-32.773	47.545	-28.521	1.00	30.42	A O
ATOM	1132	N	ALA	A	151	-33.335	45.484	-27.865	1.00	29.45	A N
ATOM	1133	CA	ALA	A	151	-34.753	45.725	-28.074	1.00	29.24	A C
ATOM	1134	CB	ALA	A	151	-35.541	44.438	-27.840	1.00	31.24	A C
ATOM	1135	C	ALA	A	151	-35.305	46.829	-27.180	1.00	33.40	A C
ATOM	1136	O	ALA	A	151	-36.123	47.636	-27.618	1.00	29.65	A O
ATOM	1137	N	ARG	A	152	-34.864	46.879	-25.927	1.00	30.98	A N
ATOM	1138	CA	ARG	A	152	-35.382	47.884	-25.013	1.00	29.61	A C
ATOM	1139	CB	ARG	A	152	-35.356	47.332	-23.579	1.00	32.60	A C
ATOM	1140	CG	ARG	A	152	-36.127	46.024	-23.436	1.00	37.29	A C
ATOM	1141	CD	ARG	A	152	-35.835	45.326	-22.120	1.00	44.64	A C
ATOM	1142	NE	ARG	A	152	-36.529	45.955	-21.000	1.00	53.90	A N
ATOM	1143	CZ	ARG	A	152	-36.308	45.656	-19.723	1.00	59.93	A C
ATOM	1144	NH1	ARG	A	152	-35.403	44.736	-19.399	1.00	64.39	A N
ATOM	1145	NH2	ARG	A	152	-36.996	46.270	-18.768	1.00	60.47	A N
ATOM	1146	C	ARG	A	152	-34.679	49.234	-25.067	1.00	27.62	A C
ATOM	1147	O	ARG	A	152	-35.258	50.251	-24.692	1.00	27.71	A O
ATOM	1148	N	GLY	A	153	-33.440	49.263	-25.544	1.00	28.83	A N
ATOM	1149	CA	GLY	A	153	-32.721	50.528	-25.577	1.00	25.37	A C
ATOM	1150	C	GLY	A	153	-32.169	50.788	-24.186	1.00	26.45	A C
ATOM	1151	O	GLY	A	153	-32.752	50.342	-23.197	1.00	26.03	A O
ATOM	1152	N	ILE	A	154	-31.058	51.510	-24.089	1.00	25.23	A N
ATOM	1153	CA	ILE	A	154	-30.455	51.732	-22.793	1.00	30.53	A C
ATOM	1154	CB	ILE	A	154	-28.987	52.187	-22.933	1.00	31.22	A C
ATOM	1155	CG2	ILE	A	154	-28.296	52.124	-21.575	1.00	22.92	A C
ATOM	1156	CG1	ILE	A	154	-28.231	51.253	-23.892	1.00	31.98	A C
ATOM	1157	CD1	ILE	A	154	-27.947	49.874	-23.361	1.00	31.85	A C
ATOM	1158	C	ILE	A	154	-31.263	52.704	-21.931	1.00	33.17	A C
ATOM	1159	O	ILE	A	154	-32.374	52.381	-21.535	1.00	47.54	A O

Table 8

ATOM	1160	N	GLY	A	155	-30.752	53.893	-21.671	1.00	32.11	A N
ATOM	1161	CA	GLY	A	155	-31.477	54.808	-20.814	1.00	21.83	A C
ATOM	1162	C	GLY	A	155	-30.485	55.290	-19.774	1.00	24.75	A C
ATOM	1163	O	GLY	A	155	-29.351	54.824	-19.758	1.00	22.15	A O
ATOM	1164	N	VAL	A	156	-30.895	56.194	-18.896	1.00	24.33	A N
ATOM	1165	CA	VAL	A	156	-29.991	56.725	-17.887	1.00	24.89	A C
ATOM	1166	CB	VAL	A	156	-29.431	58.088	-18.342	1.00	27.02	A C
ATOM	1167	CG1	VAL	A	156	-28.445	58.628	-17.330	1.00	24.97	A C
ATOM	1168	CG2	VAL	A	156	-28.790	57.949	-19.694	1.00	30.15	A C
ATOM	1169	C	VAL	A	156	-30.684	56.929	-16.546	1.00	25.73	A C
ATOM	1170	O	VAL	A	156	-31.838	57.323	-16.494	1.00	26.49	A O
ATOM	1171	N	ASN	A	157	-29.973	56.643	-15.461	1.00	24.09	A N
ATOM	1172	CA	ASN	A	157	-30.496	56.857	-14.120	1.00	22.94	A C
ATOM	1173	CB	ASN	A	157	-30.487	55.557	-13.284	1.00	23.45	A C
ATOM	1174	CG	ASN	A	157	-31.655	54.634	-13.606	1.00	21.24	A C
ATOM	1175	OD1	ASN	A	157	-32.803	55.067	-13.667	1.00	27.26	A O
ATOM	1176	ND2	ASN	A	157	-31.368	53.360	-13.803	1.00	19.67	A N
ATOM	1177	C	ASN	A	157	-29.526	57.856	-13.499	1.00	25.34	A C
ATOM	1178	O	ASN	A	157	-28.316	57.709	-13.627	1.00	24.98	A O
ATOM	1179	N	LYS	A	158	-30.046	58.874	-12.832	1.00	26.03	A N
ATOM	1180	CA	LYS	A	158	-29.193	59.873	-12.197	1.00	30.21	A C
ATOM	1181	CB	LYS	A	158	-29.507	61.273	-12.738	1.00	36.60	A C
ATOM	1182	CG	LYS	A	158	-30.882	61.399	-13.377	1.00	53.56	A C
ATOM	1183	CD	LYS	A	158	-31.015	60.550	-14.648	1.00	61.74	A C
ATOM	1184	CE	LYS	A	158	-32.473	60.371	-15.070	1.00	66.83	A C
ATOM	1185	NZ	LYS	A	158	-33.098	61.645	-15.542	1.00	71.84	A N
ATOM	1186	C	LYS	A	158	-29.440	59.799	-10.701	1.00	27.92	A C
ATOM	1187	O	LYS	A	158	-30.585	59.721	-10.251	1.00	23.38	A O
ATOM	1188	N	ASN	A	159	-28.356	59.789	-9.938	1.00	22.28	A N
ATOM	1189	CA	ASN	A	159	-28.436	59.694	-8.499	1.00	27.35	A C
ATOM	1190	CB	ASN	A	159	-27.041	59.876	-7.911	1.00	27.52	A C
ATOM	1191	CG	ASN	A	159	-26.151	58.660	-8.139	1.00	30.46	A C
ATOM	1192	OD1	ASN	A	159	-24.924	58.759	-8.109	1.00	33.49	A O
ATOM	1193	ND2	ASN	A	159	-26.765	57.505	-8.352	1.00	20.55	A N
ATOM	1194	C	ASN	A	159	-29.435	60.672	-7.865	1.00	32.26	A C
ATOM	1195	O	ASN	A	159	-30.081	60.334	-6.868	1.00	30.61	A O
ATOM	1196	N	GLU	A	160	-29.583	61.860	-8.453	1.00	34.13	A N
ATOM	1197	CA	GLU	A	160	-30.509	62.876	-7.931	1.00	39.10	A C
ATOM	1198	CB	GLU	A	160	-30.443	64.171	-8.751	1.00	47.06	A C
ATOM	1199	CG	GLU	A	160	-29.064	64.742	-8.959	1.00	62.38	A C
ATOM	1200	CD	GLU	A	160	-28.323	64.050	-10.082	1.00	70.85	A C
ATOM	1201	OE1	GLU	A	160	-27.793	62.937	-9.868	1.00	72.78	A O
ATOM	1202	OE2	GLU	A	160	-28.286	64.624	-11.192	1.00	78.71	A O
ATOM	1203	C	GLU	A	160	-31.962	62.407	-7.927	1.00	38.10	A C
ATOM	1204	O	GLU	A	160	-32.736	62.800	-7.059	1.00	39.31	A O
ATOM	1205	N	ASP	A	161	-32.342	61.584	-8.898	1.00	33.79	A N
ATOM	1206	CA	ASP	A	161	-33.722	61.107	-8.965	1.00	37.44	A C
ATOM	1207	CB	ASP	A	161	-34.143	60.893	-10.422	1.00	41.95	A C
ATOM	1208	CG	ASP	A	161	-33.897	62.119	-11.293	1.00	50.87	A C
ATOM	1209	OD1	ASP	A	161	-34.136	63.254	-10.820	1.00	54.78	A O
ATOM	1210	OD2	ASP	A	161	-33.477	61.943	-12.457	1.00	51.78	A O
ATOM	1211	C	ASP	A	161	-33.951	59.813	-8.199	1.00	35.75	A C
ATOM	1212	O	ASP	A	161	-35.035	59.232	-8.264	1.00	38.12	A O
ATOM	1213	N	LEU	A	162	-32.945	59.362	-7.463	1.00	34.11	A N
ATOM	1214	CA	LEU	A	162	-33.068	58.110	-6.726	1.00	35.54	A C
ATOM	1215	CB	LEU	A	162	-32.027	57.121	-7.249	1.00	31.81	A C
ATOM	1216	CG	LEU	A	162	-32.160	56.856	-8.749	1.00	35.31	A C

Table 8

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ATOM   1217  CD1 LEU A 162     -31.011  55.981  -9.250  1.00 33.98      A    C
ATOM   1218  CD2 LEU A 162     -33.493  56.188  -9.013  1.00 35.50      A    C
ATOM   1219  C   LEU A 162     -32.910  58.296  -5.219  1.00 39.07      A    O
ATOM   1220  O   LEU A 162     -32.518  57.371  -4.505  1.00 38.32      A    N
ATOM   1221  N   SER A 163     -33.239  59.496  -4.748  1.00 40.32      A    C
ATOM   1222  CA  SER A 163     -33.146  59.857  -3.340  1.00 45.13      A    C
ATOM   1223  CB  SER A 163     -33.710  61.267  -3.137  1.00 46.14      A    O
ATOM   1224  OG  SER A 163     -33.968  61.894  -4.384  1.00 52.18      A    C
ATOM   1225  C   SER A 163     -33.851  58.904  -2.374  1.00 46.83      A    O
ATOM   1226  O   SER A 163     -34.898  58.327  -2.694  1.00 45.70      A    N
ATOM   1227  N   LEU A 164     -33.264  58.786  -1.182  1.00 50.67      A    C
ATOM   1228  CA  LEU A 164     -33.754  57.954  -0.079  1.00 54.90      A    C
ATOM   1229  CB  LEU A 164     -35.182  58.376   0.316  1.00 51.77      A    C
ATOM   1230  CG  LEU A 164     -35.761  57.896   1.652  1.00 51.95      A    C
ATOM   1231  CD1 LEU A 164     -34.895  58.392   2.795  1.00 51.95      A    C
ATOM   1232  CD2 LEU A 164     -37.189  58.406   1.823  1.00 50.38      A    C
ATOM   1233  C   LEU A 164     -33.706  56.466  -0.425  1.00 57.62      A    O
ATOM   1234  O   LEU A 164     -32.887  55.750   0.189  1.00 59.61      A    O
ATOM   1235  OXT LEU A 164     -34.469  56.031  -1.312  1.00 63.32      A
TER    1236       LEU A 164
ATOM   1237  CB  LEU B   6      -7.512  39.929 -25.599  1.00 62.55      B    C
ATOM   1238  CG  LEU B   6      -7.084  41.404 -25.606  1.00 65.57      B    C
ATOM   1239  CD1 LEU B   6      -7.318  42.025 -26.982  1.00 67.55      B    C
ATOM   1240  CD2 LEU B   6      -7.857  42.162 -24.535  1.00 68.87      B    C
ATOM   1241  C   LEU B   6      -6.937  39.471 -23.177  1.00 55.20      B    O
ATOM   1242  O   LEU B   6      -6.005  40.087 -22.665  1.00 55.01      B    N
ATOM   1243  N   LEU B   6      -7.428  37.601 -24.746  1.00 59.63      B    C
ATOM   1244  CA  LEU B   6      -6.828  38.959 -24.617  1.00 58.59      B    N
ATOM   1245  N   LEU B   7      -8.073  39.215 -22.528  1.00 50.57      B    C
ATOM   1246  CA  LEU B   7      -8.281  39.646 -21.143  1.00 44.39      B    C
ATOM   1247  CB  LEU B   7      -9.680  39.237 -20.682  1.00 43.64      B    C
ATOM   1248  CG  LEU B   7     -10.801  40.294 -20.631  1.00 48.07      B    C
ATOM   1249  CD1 LEU B   7     -10.665  41.334 -21.733  1.00 45.09      B    C
ATOM   1250  CD2 LEU B   7     -12.138  39.578 -20.733  1.00 45.56      B    C
ATOM   1251  C   LEU B   7      -7.209  39.045 -20.218  1.00 44.15      B    O
ATOM   1252  O   LEU B   7      -6.818  37.886 -20.371  1.00 42.06      B    N
ATOM   1253  N   ASP B   8      -6.746  39.840 -19.258  1.00 40.68      B    C
ATOM   1254  CA  ASP B   8      -5.704  39.425 -18.320  1.00 43.01      B    C
ATOM   1255  CB  ASP B   8      -5.475  40.524 -17.280  1.00 48.03      B    C
ATOM   1256  CG  ASP B   8      -4.923  41.804 -17.897  1.00 54.95      B    O
ATOM   1257  OD1 ASP B   8      -4.916  42.846 -17.198  1.00 54.12      B    O
ATOM   1258  OD2 ASP B   8      -4.496  41.761 -19.078  1.00 56.04      B    C
ATOM   1259  C   ASP B   8      -5.906  38.096 -17.597  1.00 39.44      B    O
ATOM   1260  O   ASP B   8      -4.965  37.314 -17.466  1.00 37.69      B    N
ATOM   1261  N   SER B   9      -7.117  37.843 -17.115  1.00 33.31      B    C
ATOM   1262  CA  SER B   9      -7.390  36.605 -16.400  1.00 37.00      B    C
ATOM   1263  CB  SER B   9      -8.798  36.638 -15.808  1.00 34.17      B    O
ATOM   1264  OG  SER B   9      -9.744  36.980 -16.798  1.00 37.67      B    C
ATOM   1265  C   SER B   9      -7.237  35.372 -17.291  1.00 36.95      B    O
ATOM   1266  O   SER B   9      -7.121  34.253 -16.795  1.00 38.96      B    N
ATOM   1267  N   PHE B  10      -7.234  35.574 -18.602  1.00 36.89      B    C
ATOM   1268  CA  PHE B  10      -7.089  34.457 -19.530  1.00 41.27      B    C
ATOM   1269  CB  PHE B  10      -7.663  34.824 -20.905  1.00 44.93      B    C
ATOM   1270  CG  PHE B  10      -9.135  35.164 -20.895  1.00 47.87      B    C
ATOM   1271  CD1 PHE B  10      -9.695  35.872 -21.956  1.00 48.75      B    C
ATOM   1272  CD2 PHE B  10      -9.955  34.781 -19.837  1.00 47.28      B    C
ATOM   1273  CE1 PHE B  10     -11.049  36.198 -21.960  1.00 50.27      B    C
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Table 8

ATOM	1274	CE2	PHE	B	10	-11.308	35.099	-19.829	1.00	51.09	B C
ATOM	1275	CZ	PHE	B	10	-11.859	35.810	-20.891	1.00	52.31	B C
ATOM	1276	C	PHE	B	10	-5.616	34.063	-19.699	1.00	40.61	B C
ATOM	1277	O	PHE	B	10	-5.313	33.032	-20.299	1.00	40.80	B O
ATOM	1278	N	LYS	B	11	-4.709	34.879	-19.171	1.00	39.15	B N
ATOM	1279	CA	LYS	B	11	-3.277	34.622	-19.308	1.00	40.34	B C
ATOM	1280	CB	LYS	B	11	-2.554	35.944	-19.614	1.00	42.27	B C
ATOM	1281	CG	LYS	B	11	-3.162	36.688	-20.805	1.00	48.82	B C
ATOM	1282	CD	LYS	B	11	-2.381	37.927	-21.219	1.00	53.28	B C
ATOM	1283	CE	LYS	B	11	-2.771	39.152	-20.414	1.00	59.93	B C
ATOM	1284	NZ	LYS	B	11	-2.110	40.384	-20.942	1.00	61.87	B N
ATOM	1285	C	LYS	B	11	-2.637	33.938	-18.100	1.00	40.47	B C
ATOM	1286	O	LYS	B	11	-1.414	33.777	-18.035	1.00	41.21	B O
ATOM	1287	N	VAL	B	12	-3.453	33.530	-17.142	1.00	38.03	B N
ATOM	1288	CA	VAL	B	12	-2.921	32.869	-15.963	1.00	37.01	B C
ATOM	1289	CB	VAL	B	12	-3.236	33.695	-14.695	1.00	37.47	B C
ATOM	1290	CG1	VAL	B	12	-4.669	34.169	-14.735	1.00	38.45	B C
ATOM	1291	CG2	VAL	B	12	-2.999	32.867	-13.457	1.00	42.90	B C
ATOM	1292	C	VAL	B	12	-3.515	31.468	-15.874	1.00	35.85	B C
ATOM	1293	O	VAL	B	12	-4.709	31.278	-16.130	1.00	33.60	B O
ATOM	1294	N	ASP	B	13	-2.671	30.494	-15.518	1.00	36.16	B N
ATOM	1295	CA	ASP	B	13	-3.063	29.088	-15.408	1.00	31.70	B C
ATOM	1296	CB	ASP	B	13	-1.817	28.186	-15.469	1.00	34.97	B C
ATOM	1297	CG	ASP	B	13	-2.161	26.686	-15.464	1.00	34.38	B C
ATOM	1298	OD1	ASP	B	13	-1.254	25.875	-15.756	1.00	39.98	B O
ATOM	1299	OD2	ASP	B	13	-3.317	26.313	-15.167	1.00	31.79	B O
ATOM	1300	C	ASP	B	13	-3.854	28.773	-14.147	1.00	31.91	B C
ATOM	1301	O	ASP	B	13	-3.302	28.642	-13.054	1.00	31.74	B O
ATOM	1302	N	HIS	B	14	-5.155	28.604	-14.319	1.00	31.51	B N
ATOM	1303	CA	HIS	B	14	-6.039	28.319	-13.200	1.00	29.78	B C
ATOM	1304	CB	HIS	B	14	-7.494	28.435	-13.669	1.00	24.27	B C
ATOM	1305	CG	HIS	B	14	-7.927	29.846	-13.954	1.00	29.17	B C
ATOM	1306	CD2	HIS	B	14	-8.886	30.613	-13.380	1.00	24.84	B C
ATOM	1307	ND1	HIS	B	14	-7.360	30.621	-14.948	1.00	27.19	B N
ATOM	1308	CE1	HIS	B	14	-7.954	31.801	-14.974	1.00	27.43	B C
ATOM	1309	NE2	HIS	B	14	-8.883	31.822	-14.032	1.00	27.03	B N
ATOM	1310	C	HIS	B	14	-5.811	26.976	-12.486	1.00	31.82	B C
ATOM	1311	O	HIS	B	14	-6.165	26.828	-11.314	1.00	29.65	B O
ATOM	1312	N	THR	B	15	-5.222	25.999	-13.167	1.00	33.73	B N
ATOM	1313	CA	THR	B	15	-4.990	24.709	-12.518	1.00	34.21	B C
ATOM	1314	CB	THR	B	15	-4.691	23.582	-13.543	1.00	35.17	B C
ATOM	1315	OG1	THR	B	15	-3.519	23.913	-14.294	1.00	32.35	B O
ATOM	1316	CG2	THR	B	15	-5.871	23.394	-14.499	1.00	37.91	B C
ATOM	1317	C	THR	B	15	-3.837	24.787	-11.524	1.00	36.01	B C
ATOM	1318	O	THR	B	15	-3.641	23.877	-10.726	1.00	34.27	B O
ATOM	1319	N	LYS	B	16	-3.085	25.884	-11.572	1.00	36.07	B N
ATOM	1320	CA	LYS	B	16	-1.955	26.083	-10.677	1.00	36.28	B C
ATOM	1321	CB	LYS	B	16	-0.758	26.623	-11.461	1.00	39.43	B C
ATOM	1322	CG	LYS	B	16	-0.141	25.654	-12.456	1.00	45.00	B C
ATOM	1323	CD	LYS	B	16	0.937	26.364	-13.267	1.00	51.96	B C
ATOM	1324	CE	LYS	B	16	1.474	25.504	-14.400	1.00	56.01	B C
ATOM	1325	NZ	LYS	B	16	2.305	26.302	-15.357	1.00	59.18	B N
ATOM	1326	C	LYS	B	16	-2.277	27.054	-9.534	1.00	35.87	B C
ATOM	1327	O	LYS	B	16	-1.384	27.474	-8.799	1.00	34.35	B O
ATOM	1328	N	MSE	B	17	-3.544	27.407	-9.366	1.00	33.39	B N
ATOM	1329	CA	MSE	B	17	-3.894	28.353	-8.305	1.00	31.09	B C
ATOM	1330	CB	MSE	B	17	-5.094	29.210	-8.721	1.00	32.40	B C

Table 8

ATOM	1331	CG	MSE	B	17	-4.794	30.325	-9.725	1.00	34.18	B C
ATOM	1332	SE	MSE	B	17	-6.471	31.172	-10.250	1.00	36.92	B S
ATOM	1333	CE	MSE	B	17	-5.882	32.155	-11.783	1.00	26.01	B C
ATOM	1334	C	MSE	B	17	-4.214	27.734	-6.962	1.00	31.13	B C
ATOM	1335	O	MSE	B	17	-4.900	26.722	-6.895	1.00	32.12	B O
ATOM	1336	N	ASN	B	18	-3.717	28.351	-5.891	1.00	28.12	B N
ATOM	1337	CA	ASN	B	18	-4.021	27.900	-4.534	1.00	30.53	B C
ATOM	1338	CB	ASN	B	18	-2.919	28.285	-3.558	1.00	32.24	B C
ATOM	1339	CG	ASN	B	18	-1.594	27.683	-3.925	1.00	43.39	B C
ATOM	1340	OD1	ASN	B	18	-1.467	26.462	-4.025	1.00	45.01	B O
ATOM	1341	ND2	ASN	B	18	-0.589	28.533	-4.134	1.00	46.71	B N
ATOM	1342	C	ASN	B	18	-5.259	28.687	-4.152	1.00	28.47	B C
ATOM	1343	O	ASN	B	18	-5.526	29.734	-4.745	1.00	27.76	B O
ATOM	1344	N	ALA	B	19	-5.997	28.199	-3.162	1.00	20.45	B N
ATOM	1345	CA	ALA	B	19	-7.203	28.872	-2.685	1.00	23.74	B C
ATOM	1346	CB	ALA	B	19	-8.385	28.626	-3.643	1.00	20.30	B C
ATOM	1347	C	ALA	B	19	-7.518	28.291	-1.333	1.00	21.18	B C
ATOM	1348	O	ALA	B	19	-7.344	27.101	-1.132	1.00	23.82	B O
ATOM	1349	N	PRO	B	20	-7.990	29.116	-0.388	1.00	21.67	B N
ATOM	1350	CD	PRO	B	20	-8.318	28.649	0.965	1.00	18.98	B C
ATOM	1351	CA	PRO	B	20	-8.236	30.559	-0.525	1.00	21.47	B C
ATOM	1352	CB	PRO	B	20	-8.863	30.951	0.816	1.00	19.57	B C
ATOM	1353	CG	PRO	B	20	-9.355	29.648	1.411	1.00	21.05	B C
ATOM	1354	C	PRO	B	20	-6.903	31.262	-0.710	1.00	25.34	B C
ATOM	1355	O	PRO	B	20	-5.927	30.885	-0.061	1.00	24.57	B O
ATOM	1356	N	ALA	B	21	-6.849	32.285	-1.564	1.00	20.17	B N
ATOM	1357	CA	ALA	B	21	-5.586	33.000	-1.772	1.00	23.97	B C
ATOM	1358	CB	ALA	B	21	-4.626	32.142	-2.602	1.00	18.42	B C
ATOM	1359	C	ALA	B	21	-5.753	34.366	-2.423	1.00	22.74	B C
ATOM	1360	O	ALA	B	21	-6.751	34.617	-3.116	1.00	23.66	B O
ATOM	1361	N	VAL	B	22	-4.777	35.243	-2.188	1.00	21.21	B N
ATOM	1362	CA	VAL	B	22	-4.771	36.600	-2.749	1.00	18.61	B C
ATOM	1363	CB	VAL	B	22	-4.304	37.668	-1.721	1.00	22.68	B C
ATOM	1364	CG1	VAL	B	22	-4.145	39.043	-2.429	1.00	18.66	B C
ATOM	1365	CG2	VAL	B	22	-5.270	37.762	-0.571	1.00	16.85	B C
ATOM	1366	C	VAL	B	22	-3.776	36.678	-3.885	1.00	23.50	B C
ATOM	1367	O	VAL	B	22	-2.659	36.172	-3.762	1.00	21.95	B O
ATOM	1368	N	ARG	B	23	-4.170	37.312	-4.987	1.00	16.20	B N
ATOM	1369	CA	ARG	B	23	-3.264	37.476	-6.118	1.00	21.96	B C
ATOM	1370	CB	ARG	B	23	-3.601	36.499	-7.247	1.00	21.33	B C
ATOM	1371	CG	ARG	B	23	-2.714	36.690	-8.507	1.00	27.85	B C
ATOM	1372	CD	ARG	B	23	-3.065	35.698	-9.630	1.00	23.82	B C
ATOM	1373	NE	ARG	B	23	-4.391	35.941	-10.178	1.00	22.83	B N
ATOM	1374	CZ	ARG	B	23	-4.646	36.772	-11.181	1.00	26.13	B C
ATOM	1375	NH1	ARG	B	23	-3.653	37.433	-11.755	1.00	24.10	B N
ATOM	1376	NH2	ARG	B	23	-5.899	36.962	-11.594	1.00	23.23	B N
ATOM	1377	C	ARG	B	23	-3.375	38.901	-6.659	1.00	22.79	B C
ATOM	1378	O	ARG	B	23	-4.493	39.429	-6.807	1.00	21.89	B O
ATOM	1379	N	ILE	B	24	-2.241	39.538	-6.924	1.00	17.29	B N
ATOM	1380	CA	ILE	B	24	-2.297	40.878	-7.484	1.00	17.60	B C
ATOM	1381	CB	ILE	B	24	-0.991	41.643	-7.314	1.00	20.66	B C
ATOM	1382	CG2	ILE	B	24	-1.055	42.942	-8.114	1.00	24.15	B C
ATOM	1383	CG1	ILE	B	24	-0.761	41.943	-5.831	1.00	21.01	B C
ATOM	1384	CD1	ILE	B	24	0.579	42.555	-5.543	1.00	29.33	B C
ATOM	1385	C	ILE	B	24	-2.534	40.613	-8.949	1.00	18.37	B C
ATOM	1386	O	ILE	B	24	-1.666	40.097	-9.640	1.00	16.37	B O
ATOM	1387	N	ALA	B	25	-3.728	40.936	-9.421	1.00	17.36	B N

Table 8

ATOM	1388	CA	ALA	B	25	-4.065	40.692	-10.818	1.00	22.21	B	C
ATOM	1389	CB	ALA	B	25	-5.600	40.713	-11.005	1.00	19.53	B	C
ATOM	1390	C	ALA	B	25	-3.419	41.697	-11.753	1.00	23.70	B	C
ATOM	1391	O	ALA	B	25	-2.961	41.342	-12.844	1.00	19.19	B	O
ATOM	1392	N	LYS	B	26	-3.377	42.953	-11.332	1.00	24.16	B	N
ATOM	1393	CA	LYS	B	26	-2.821	43.978	-12.196	1.00	25.04	B	C
ATOM	1394	CB	LYS	B	26	-3.815	44.256	-13.315	1.00	33.20	B	C
ATOM	1395	CG	LYS	B	26	-3.451	45.357	-14.278	1.00	48.65	B	C
ATOM	1396	CD	LYS	B	26	-4.578	45.533	-15.294	1.00	59.22	B	C
ATOM	1397	CE	LYS	B	26	-4.217	46.533	-16.392	1.00	68.93	B	C
ATOM	1398	NZ	LYS	B	26	-5.285	46.629	-17.439	1.00	71.23	B	N
ATOM	1399	C	LYS	B	26	-2.562	45.258	-11.422	1.00	26.15	B	C
ATOM	1400	O	LYS	B	26	-3.220	45.521	-10.421	1.00	17.78	B	O
ATOM	1401	N	THR	B	27	-1.598	46.034	-11.914	1.00	21.12	B	N
ATOM	1402	CA	THR	B	27	-1.212	47.315	-11.359	1.00	26.26	B	C
ATOM	1403	CB	THR	B	27	0.228	47.272	-10.817	1.00	32.56	B	C
ATOM	1404	OG1	THR	B	27	0.259	46.462	-9.632	1.00	34.23	B	O
ATOM	1405	CG2	THR	B	27	0.698	48.656	-10.453	1.00	37.90	B	C
ATOM	1406	C	THR	B	27	-1.319	48.326	-12.498	1.00	26.14	B	C
ATOM	1407	O	THR	B	27	-0.957	48.036	-13.640	1.00	23.08	B	O
ATOM	1408	N	MSE	B	28	-1.854	49.504	-12.203	1.00	24.82	B	N
ATOM	1409	CA	MSE	B	28	-2.010	50.514	-13.234	1.00	24.79	B	C
ATOM	1410	CB	MSE	B	28	-3.462	50.598	-13.687	1.00	26.77	B	C
ATOM	1411	CG	MSE	B	28	-3.981	49.346	-14.337	1.00	42.91	B	C
ATOM	1412	SE	MSE	B	28	-5.910	49.402	-14.303	1.00	49.74	B	S
ATOM	1413	CE	MSE	B	28	-6.200	50.591	-15.771	1.00	47.57	B	C
ATOM	1414	C	MSE	B	28	-1.614	51.853	-12.682	1.00	24.70	B	C
ATOM	1415	O	MSE	B	28	-1.726	52.095	-11.482	1.00	20.43	B	O
ATOM	1416	N	LEU	B	29	-1.181	52.728	-13.581	1.00	26.09	B	N
ATOM	1417	CA	LEU	B	29	-0.773	54.068	-13.222	1.00	26.76	B	C
ATOM	1418	CB	LEU	B	29	0.655	54.325	-13.705	1.00	30.73	B	C
ATOM	1419	CG	LEU	B	29	1.791	53.641	-12.944	1.00	31.86	B	C
ATOM	1420	CD1	LEU	B	29	3.106	54.191	-13.454	1.00	33.67	B	C
ATOM	1421	CD2	LEU	B	29	1.668	53.913	-11.447	1.00	32.13	B	C
ATOM	1422	C	LEU	B	29	-1.715	55.074	-13.864	1.00	25.70	B	C
ATOM	1423	O	LEU	B	29	-2.018	54.981	-15.043	1.00	26.49	B	O
ATOM	1424	N	THR	B	30	-2.207	56.021	-13.084	1.00	24.15	B	N
ATOM	1425	CA	THR	B	30	-3.079	57.029	-13.648	1.00	24.94	B	C
ATOM	1426	CB	THR	B	30	-3.813	57.783	-12.545	1.00	27.95	B	C
ATOM	1427	OG1	THR	B	30	-2.868	58.550	-11.789	1.00	31.45	B	O
ATOM	1428	CG2	THR	B	30	-4.521	56.797	-11.608	1.00	24.90	B	C
ATOM	1429	C	THR	B	30	-2.180	58.009	-14.425	1.00	31.50	B	C
ATOM	1430	O	THR	B	30	-0.948	57.983	-14.296	1.00	28.77	B	O
ATOM	1431	N	PRO	B	31	-2.776	58.881	-15.242	1.00	29.37	B	N
ATOM	1432	CD	PRO	B	31	-4.217	59.059	-15.486	1.00	33.87	B	C
ATOM	1433	CA	PRO	B	31	-1.987	59.845	-16.015	1.00	33.09	B	C
ATOM	1434	CB	PRO	B	31	-3.054	60.784	-16.584	1.00	35.91	B	C
ATOM	1435	CG	PRO	B	31	-4.225	59.838	-16.792	1.00	36.50	B	C
ATOM	1436	C	PRO	B	31	-0.952	60.604	-15.173	1.00	30.57	B	C
ATOM	1437	O	PRO	B	31	0.195	60.732	-15.571	1.00	31.25	B	O
ATOM	1438	N	LYS	B	32	-1.361	61.104	-14.012	1.00	29.22	B	N
ATOM	1439	CA	LYS	B	32	-0.454	61.855	-13.151	1.00	29.27	B	C
ATOM	1440	CB	LYS	B	32	-1.238	62.743	-12.179	1.00	29.54	B	C
ATOM	1441	CG	LYS	B	32	-2.002	63.895	-12.835	1.00	29.05	B	C
ATOM	1442	CD	LYS	B	32	-2.762	64.708	-11.799	1.00	33.61	B	C
ATOM	1443	CE	LYS	B	32	-3.482	65.869	-12.439	1.00	35.65	B	C
ATOM	1444	NZ	LYS	B	32	-4.201	65.408	-13.652	1.00	48.93	B	N

Table 8

ATOM	1445	C	LYS	B	32	0.530	61.000	-12.365	1.00	30.77	B C
ATOM	1446	O	LYS	B	32	1.423	61.532	-11.707	1.00	27.99	B O
ATOM	1447	N	GLY	B	33	0.386	59.683	-12.432	1.00	29.46	B N
ATOM	1448	CA	GLY	B	33	1.314	58.839	-11.701	1.00	25.70	B C
ATOM	1449	C	GLY	B	33	0.813	58.183	-10.419	1.00	26.75	B C
ATOM	1450	O	GLY	B	33	1.619	57.670	-9.643	1.00	26.88	B O
ATOM	1451	N	ASP	B	34	-0.493	58.191	-10.173	1.00	24.03	B N
ATOM	1452	CA	ASP	B	34	-1.014	57.522	-8.976	1.00	25.57	B C
ATOM	1453	CB	ASP	B	34	-2.328	58.164	-8.525	1.00	25.63	B C
ATOM	1454	CG	ASP	B	34	-2.106	59.299	-7.532	1.00	30.52	B C
ATOM	1455	OD1	ASP	B	34	-2.894	60.271	-7.541	1.00	33.15	B O
ATOM	1456	OD2	ASP	B	34	-1.148	59.210	-6.728	1.00	31.87	B O
ATOM	1457	C	ASP	B	34	-1.213	56.030	-9.277	1.00	23.97	B C
ATOM	1458	O	ASP	B	34	-1.369	55.639	-10.431	1.00	24.68	B O
ATOM	1459	N	ASN	B	35	-1.223	55.202	-8.237	1.00	21.69	B N
ATOM	1460	CA	ASN	B	35	-1.346	53.757	-8.418	1.00	24.55	B C
ATOM	1461	CB	ASN	B	35	-0.354	53.041	-7.497	1.00	27.88	B C
ATOM	1462	CG	ASN	B	35	1.048	53.578	-7.627	1.00	34.49	B C
ATOM	1463	OD1	ASN	B	35	1.736	53.309	-8.609	1.00	35.78	B O
ATOM	1464	ND2	ASN	B	35	1.477	54.355	-6.637	1.00	35.88	B N
ATOM	1465	C	ASN	B	35	-2.716	53.116	-8.180	1.00	20.74	B C
ATOM	1466	O	ASN	B	35	-3.365	53.355	-7.173	1.00	17.00	B O
ATOM	1467	N	ILE	B	36	-3.121	52.266	-9.106	1.00	20.73	B N
ATOM	1468	CA	ILE	B	36	-4.367	51.525	-8.958	1.00	20.99	B C
ATOM	1469	CB	ILE	B	36	-5.357	51.873	-10.088	1.00	22.49	B C
ATOM	1470	CG2	ILE	B	36	-6.530	50.904	-10.107	1.00	17.13	B C
ATOM	1471	CG1	ILE	B	36	-5.904	53.282	-9.835	1.00	20.55	B C
ATOM	1472	CD1	ILE	B	36	-6.742	53.792	-10.957	1.00	33.58	B C
ATOM	1473	C	ILE	B	36	-3.959	50.049	-8.986	1.00	24.53	B C
ATOM	1474	O	ILE	B	36	-3.129	49.642	-9.802	1.00	21.15	B O
ATOM	1475	N	THR	B	37	-4.498	49.267	-8.056	1.00	20.67	B N
ATOM	1476	CA	THR	B	37	-4.184	47.836	-7.982	1.00	22.69	B C
ATOM	1477	CB	THR	B	37	-3.410	47.494	-6.677	1.00	21.73	B C
ATOM	1478	OG1	THR	B	37	-2.296	48.381	-6.537	1.00	29.54	B O
ATOM	1479	CG2	THR	B	37	-2.887	46.042	-6.710	1.00	23.48	B C
ATOM	1480	C	THR	B	37	-5.488	47.030	-7.990	1.00	20.49	B C
ATOM	1481	O	THR	B	37	-6.470	47.419	-7.362	1.00	26.71	B O
ATOM	1482	N	VAL	B	38	-5.499	45.914	-8.706	1.00	21.44	B N
ATOM	1483	CA	VAL	B	38	-6.686	45.059	-8.762	1.00	18.82	B C
ATOM	1484	CB	VAL	B	38	-7.148	44.839	-10.212	1.00	18.55	B C
ATOM	1485	CG1	VAL	B	38	-8.297	43.796	-10.250	1.00	15.47	B C
ATOM	1486	CG2	VAL	B	38	-7.607	46.190	-10.803	1.00	16.35	B C
ATOM	1487	C	VAL	B	38	-6.281	43.719	-8.167	1.00	18.69	B C
ATOM	1488	O	VAL	B	38	-5.290	43.136	-8.591	1.00	14.65	B O
ATOM	1489	N	PHE	B	39	-7.031	43.250	-7.177	1.00	13.23	B N
ATOM	1490	CA	PHE	B	39	-6.736	41.986	-6.513	1.00	16.21	B C
ATOM	1491	CB	PHE	B	39	-6.743	42.157	-4.987	1.00	16.22	B C
ATOM	1492	CG	PHE	B	39	-5.617	43.007	-4.457	1.00	21.10	B C
ATOM	1493	CD1	PHE	B	39	-4.422	42.418	-4.035	1.00	16.81	B C
ATOM	1494	CD2	PHE	B	39	-5.750	44.392	-4.393	1.00	22.34	B C
ATOM	1495	CE1	PHE	B	39	-3.371	43.204	-3.554	1.00	24.92	B C
ATOM	1496	CE2	PHE	B	39	-4.708	45.194	-3.914	1.00	23.06	B C
ATOM	1497	CZ	PHE	B	39	-3.513	44.600	-3.493	1.00	22.28	B C
ATOM	1498	C	PHE	B	39	-7.779	40.919	-6.850	1.00	21.61	B C
ATOM	1499	O	PHE	B	39	-8.981	41.207	-6.907	1.00	16.58	B O
ATOM	1500	N	ASP	B	40	-7.285	39.695	-7.038	1.00	15.75	B N
ATOM	1501	CA	ASP	B	40	-8.076	38.500	-7.319	1.00	19.22	B C

Table 8

ATOM	1502	CB	ASP	B	40	-7.306	37.640	-8.348	1.00	21.74	B	C
ATOM	1503	CG	ASP	B	40	-7.737	36.168	-8.379	1.00	22.99	B	C
ATOM	1504	OD1	ASP	B	40	-8.474	35.693	-7.497	1.00	21.22	B	O
ATOM	1505	OD2	ASP	B	40	-7.300	35.469	-9.309	1.00	23.76	B	O
ATOM	1506	C	ASP	B	40	-8.120	37.842	-5.933	1.00	20.68	B	C
ATOM	1507	O	ASP	B	40	-7.085	37.395	-5.428	1.00	16.85	B	O
ATOM	1508	N	LEU	B	41	-9.291	37.872	-5.287	1.00	13.40	B	N
ATOM	1509	CA	LEU	B	41	-9.459	37.264	-3.959	1.00	11.34	B	C
ATOM	1510	CB	LEU	B	41	-10.347	38.159	-3.077	1.00	10.58	B	C
ATOM	1511	CG	LEU	B	41	-9.844	39.616	-2.970	1.00	13.07	B	C
ATOM	1512	CD1	LEU	B	41	-10.834	40.459	-2.237	1.00	13.11	B	C
ATOM	1513	CD2	LEU	B	41	-8.512	39.657	-2.266	1.00	14.79	B	C
ATOM	1514	C	LEU	B	41	-10.122	35.914	-4.259	1.00	15.81	B	C
ATOM	1515	O	LEU	B	41	-11.359	35.818	-4.361	1.00	12.67	B	O
ATOM	1516	N	ARG	B	42	-9.281	34.889	-4.452	1.00	13.90	B	N
ATOM	1517	CA	ARG	B	42	-9.746	33.542	-4.807	1.00	16.44	B	C
ATOM	1518	CB	ARG	B	42	-8.627	32.798	-5.549	1.00	15.04	B	C
ATOM	1519	CG	ARG	B	42	-9.090	31.521	-6.272	1.00	21.48	B	C
ATOM	1520	CD	ARG	B	42	-10.044	31.836	-7.431	1.00	17.30	B	C
ATOM	1521	NE	ARG	B	42	-9.442	32.793	-8.343	1.00	18.40	B	N
ATOM	1522	CZ	ARG	B	42	-9.829	33.000	-9.596	1.00	21.57	B	C
ATOM	1523	NH1	ARG	B	42	-10.846	32.315	-10.118	1.00	18.11	B	N
ATOM	1524	NH2	ARG	B	42	-9.173	33.877	-10.342	1.00	18.96	B	N
ATOM	1525	C	ARG	B	42	-10.217	32.706	-3.623	1.00	18.60	B	C
ATOM	1526	O	ARG	B	42	-9.411	32.215	-2.824	1.00	19.22	B	O
ATOM	1527	N	PHE	B	43	-11.527	32.532	-3.507	1.00	16.56	B	N
ATOM	1528	CA	PHE	B	43	-12.075	31.764	-2.414	1.00	17.59	B	C
ATOM	1529	CB	PHE	B	43	-13.533	32.159	-2.159	1.00	16.65	B	C
ATOM	1530	CG	PHE	B	43	-13.701	33.439	-1.366	1.00	21.32	B	C
ATOM	1531	CD1	PHE	B	43	-14.390	33.433	-0.159	1.00	16.51	B	C
ATOM	1532	CD2	PHE	B	43	-13.196	34.653	-1.839	1.00	20.38	B	C
ATOM	1533	CE1	PHE	B	43	-14.580	34.607	0.567	1.00	20.27	B	C
ATOM	1534	CE2	PHE	B	43	-13.385	35.841	-1.114	1.00	20.88	B	C
ATOM	1535	CZ	PHE	B	43	-14.079	35.815	0.089	1.00	17.23	B	C
ATOM	1536	C	PHE	B	43	-12.005	30.263	-2.650	1.00	22.42	B	C
ATOM	1537	O	PHE	B	43	-11.692	29.511	-1.733	1.00	25.33	B	O
ATOM	1538	N	CYS	B	44	-12.299	29.836	-3.875	1.00	22.38	B	N
ATOM	1539	CA	CYS	B	44	-12.337	28.412	-4.221	1.00	26.17	B	C
ATOM	1540	CB	CYS	B	44	-13.682	28.028	-4.862	1.00	26.76	B	C
ATOM	1541	SG	CYS	B	44	-15.150	28.706	-4.165	1.00	26.53	B	S
ATOM	1542	C	CYS	B	44	-11.288	27.981	-5.230	1.00	23.57	B	C
ATOM	1543	O	CYS	B	44	-10.813	28.781	-6.036	1.00	24.95	B	O
ATOM	1544	N	ILE	B	45	-10.973	26.692	-5.204	1.00	25.12	B	N
ATOM	1545	CA	ILE	B	45	-10.040	26.120	-6.159	1.00	24.40	B	C
ATOM	1546	CB	ILE	B	45	-9.610	24.728	-5.709	1.00	28.58	B	C
ATOM	1547	CG2	ILE	B	45	-8.871	24.006	-6.833	1.00	26.51	B	C
ATOM	1548	CG1	ILE	B	45	-8.711	24.869	-4.478	1.00	26.49	B	C
ATOM	1549	CD1	ILE	B	45	-8.276	23.564	-3.909	1.00	37.60	B	C
ATOM	1550	C	ILE	B	45	-10.806	26.044	-7.477	1.00	25.66	B	C
ATOM	1551	O	ILE	B	45	-11.858	25.406	-7.569	1.00	21.37	B	O
ATOM	1552	N	PRO	B	46	-10.301	26.721	-8.515	1.00	25.51	B	N
ATOM	1553	CD	PRO	B	46	-9.075	27.536	-8.592	1.00	25.55	B	C
ATOM	1554	CA	PRO	B	46	-10.982	26.702	-9.805	1.00	25.08	B	C
ATOM	1555	CB	PRO	B	46	-9.970	27.366	-10.732	1.00	23.34	B	C
ATOM	1556	CG	PRO	B	46	-9.327	28.370	-9.828	1.00	22.52	B	C
ATOM	1557	C	PRO	B	46	-11.382	25.316	-10.288	1.00	28.21	B	C
ATOM	1558	O	PRO	B	46	-10.590	24.373	-10.258	1.00	26.70	B	O

Table 8

ATOM	1559	N	ASN	B	47	-12.630	25.220	-10.725	1.00	27.34	B	N
ATOM	1560	CA	ASN	B	47	-13.178	23.998	-11.266	1.00	30.42	B	C
ATOM	1561	CB	ASN	B	47	-12.401	23.639	-12.541	1.00	26.49	B	C
ATOM	1562	CG	ASN	B	47	-12.569	24.696	-13.631	1.00	29.59	B	C
ATOM	1563	OD1	ASN	B	47	-13.671	24.917	-14.121	1.00	30.30	B	O
ATOM	1564	ND2	ASN	B	47	-11.478	25.359	-14.001	1.00	20.80	B	N
ATOM	1565	C	ASN	B	47	-13.276	22.802	-10.313	1.00	30.43	B	C
ATOM	1566	O	ASN	B	47	-13.458	21.672	-10.756	1.00	30.55	B	O
ATOM	1567	N	LYS	B	48	-13.178	23.046	-9.010	1.00	30.95	B	N
ATOM	1568	CA	LYS	B	48	-13.314	21.965	-8.035	1.00	34.04	B	C
ATOM	1569	CB	LYS	B	48	-11.954	21.596	-7.442	1.00	37.71	B	C
ATOM	1570	CG	LYS	B	48	-11.006	21.020	-8.478	1.00	47.91	B	C
ATOM	1571	CD	LYS	B	48	-9.969	20.114	-7.850	1.00	56.51	B	C
ATOM	1572	CE	LYS	B	48	-9.213	19.338	-8.920	1.00	63.62	B	C
ATOM	1573	NZ	LYS	B	48	-8.281	18.334	-8.319	1.00	71.15	B	N
ATOM	1574	C	LYS	B	48	-14.280	22.377	-6.932	1.00	33.70	B	C
ATOM	1575	O	LYS	B	48	-14.892	21.533	-6.277	1.00	32.87	B	O
ATOM	1576	N	GLU	B	49	-14.412	23.686	-6.738	1.00	28.02	B	N
ATOM	1577	CA	GLU	B	49	-15.295	24.245	-5.727	1.00	23.55	B	C
ATOM	1578	CB	GLU	B	49	-14.485	24.696	-4.513	1.00	31.66	B	C
ATOM	1579	CG	GLU	B	49	-13.483	23.673	-3.999	1.00	39.72	B	C
ATOM	1580	CD	GLU	B	49	-12.575	24.235	-2.905	1.00	44.43	B	C
ATOM	1581	OE1	GLU	B	49	-11.694	25.069	-3.207	1.00	39.51	B	O
ATOM	1582	OE2	GLU	B	49	-12.747	23.834	-1.734	1.00	52.07	B	O
ATOM	1583	C	GLU	B	49	-15.947	25.466	-6.364	1.00	24.37	B	C
ATOM	1584	O	GLU	B	49	-15.384	26.063	-7.278	1.00	20.94	B	O
ATOM	1585	N	ILE	B	50	-17.125	25.844	-5.885	1.00	20.99	B	N
ATOM	1586	CA	ILE	B	50	-17.812	27.006	-6.421	1.00	19.44	B	C
ATOM	1587	CB	ILE	B	50	-18.617	26.647	-7.686	1.00	20.62	B	C
ATOM	1588	CG2	ILE	B	50	-19.799	25.764	-7.320	1.00	22.95	B	C
ATOM	1589	CG1	ILE	B	50	-19.121	27.927	-8.368	1.00	17.03	B	C
ATOM	1590	CD1	ILE	B	50	-19.578	27.705	-9.810	1.00	18.05	B	C
ATOM	1591	C	ILE	B	50	-18.749	27.517	-5.339	1.00	23.45	B	C
ATOM	1592	O	ILE	B	50	-19.265	26.735	-4.551	1.00	23.37	B	O
ATOM	1593	N	LEU	B	51	-18.946	28.828	-5.290	1.00	20.40	B	N
ATOM	1594	CA	LEU	B	51	-19.836	29.449	-4.305	1.00	22.45	B	C
ATOM	1595	CB	LEU	B	51	-19.359	30.885	-4.030	1.00	15.44	B	C
ATOM	1596	CG	LEU	B	51	-18.421	31.156	-2.851	1.00	27.70	B	C
ATOM	1597	CD1	LEU	B	51	-17.663	29.911	-2.439	1.00	19.25	B	C
ATOM	1598	CD2	LEU	B	51	-17.504	32.318	-3.208	1.00	22.22	B	C
ATOM	1599	C	LEU	B	51	-21.268	29.475	-4.834	1.00	17.05	B	C
ATOM	1600	O	LEU	B	51	-21.476	29.601	-6.037	1.00	18.93	B	O
ATOM	1601	N	SER	B	52	-22.264	29.370	-3.959	1.00	18.53	B	N
ATOM	1602	CA	SER	B	52	-23.645	29.408	-4.447	1.00	19.23	B	C
ATOM	1603	CB	SER	B	52	-24.619	28.931	-3.376	1.00	17.57	B	C
ATOM	1604	OG	SER	B	52	-24.750	29.895	-2.350	1.00	20.33	B	O
ATOM	1605	C	SER	B	52	-24.009	30.857	-4.831	1.00	18.72	B	C
ATOM	1606	O	SER	B	52	-23.464	31.812	-4.269	1.00	14.06	B	O
ATOM	1607	N	PRO	B	53	-24.952	31.029	-5.777	1.00	14.88	B	N
ATOM	1608	CD	PRO	B	53	-25.563	29.966	-6.605	1.00	13.04	B	C
ATOM	1609	CA	PRO	B	53	-25.370	32.367	-6.210	1.00	16.12	B	C
ATOM	1610	CB	PRO	B	53	-26.448	32.085	-7.262	1.00	13.65	B	C
ATOM	1611	CG	PRO	B	53	-25.984	30.735	-7.865	1.00	14.63	B	C
ATOM	1612	C	PRO	B	53	-25.898	33.214	-5.044	1.00	19.81	B	C
ATOM	1613	O	PRO	B	53	-25.590	34.401	-4.945	1.00	19.80	B	O
ATOM	1614	N	LYS	B	54	-26.684	32.613	-4.151	1.00	17.01	B	N
ATOM	1615	CA	LYS	B	54	-27.232	33.363	-3.016	1.00	15.55	B	C

Table 8

ATOM	1616	CB	LYS	B	54	-28.410	32.595	-2.366	1.00	12.39	B	C
ATOM	1617	CG	LYS	B	54	-29.619	32.387	-3.296	1.00	12.43	B	C
ATOM	1618	CD	LYS	B	54	-30.898	32.091	-2.489	1.00	19.05	B	C
ATOM	1619	CE	LYS	B	54	-32.001	31.424	-3.316	1.00	24.95	B	N
ATOM	1620	NZ	LYS	B	54	-32.289	31.984	-4.672	1.00	21.78	B	C
ATOM	1621	C	LYS	B	54	-26.155	33.641	-1.964	1.00	15.74	B	O
ATOM	1622	O	LYS	B	54	-26.111	34.722	-1.364	1.00	13.00	B	N
ATOM	1623	N	GLY	B	55	-25.292	32.660	-1.724	1.00	14.76	B	C
ATOM	1624	CA	GLY	B	55	-24.251	32.862	-0.748	1.00	17.59	B	C
ATOM	1625	C	GLY	B	55	-23.281	33.943	-1.197	1.00	19.06	B	O
ATOM	1626	O	GLY	B	55	-22.898	34.815	-0.412	1.00	19.32	B	N
ATOM	1627	N	ILE	B	56	-22.878	33.913	-2.464	1.00	17.22	B	C
ATOM	1628	CA	ILE	B	56	-21.939	34.923	-2.899	1.00	14.68	B	C
ATOM	1629	CB	ILE	B	56	-21.350	34.592	-4.280	1.00	12.10	B	C
ATOM	1630	CG2	ILE	B	56	-22.292	35.062	-5.394	1.00	11.65	B	C
ATOM	1631	CG1	ILE	B	56	-19.974	35.256	-4.405	1.00	12.68	B	C
ATOM	1632	CD1	ILE	B	56	-19.186	34.874	-5.700	1.00	14.68	B	C
ATOM	1633	C	ILE	B	56	-22.581	36.312	-2.904	1.00	12.61	B	C
ATOM	1634	O	ILE	B	56	-21.903	37.322	-2.763	1.00	15.53	B	O
ATOM	1635	N	HIS	B	57	-23.895	36.370	-3.046	1.00	14.00	B	N
ATOM	1636	CA	HIS	B	57	-24.562	37.655	-3.043	1.00	13.33	B	C
ATOM	1637	CB	HIS	B	57	-25.974	37.498	-3.583	1.00	12.98	B	C
ATOM	1638	CG	HIS	B	57	-26.743	38.781	-3.649	1.00	14.24	B	C
ATOM	1639	CD2	HIS	B	57	-26.336	40.071	-3.579	1.00	14.36	B	C
ATOM	1640	ND1	HIS	B	57	-28.111	38.820	-3.802	1.00	14.24	B	N
ATOM	1641	CE1	HIS	B	57	-28.517	40.077	-3.819	1.00	13.98	B	C
ATOM	1642	NE2	HIS	B	57	-27.457	40.857	-3.687	1.00	12.80	B	N
ATOM	1643	C	HIS	B	57	-24.592	38.223	-1.609	1.00	14.04	B	C
ATOM	1644	O	HIS	B	57	-24.345	39.419	-1.373	1.00	15.23	B	O
ATOM	1645	N	THR	B	58	-24.900	37.365	-0.655	1.00	11.72	B	N
ATOM	1646	CA	THR	B	58	-24.945	37.804	0.731	1.00	14.22	B	C
ATOM	1647	CB	THR	B	58	-25.474	36.713	1.631	1.00	13.85	B	C
ATOM	1648	OG1	THR	B	58	-26.829	36.435	1.262	1.00	18.17	B	O
ATOM	1649	CG2	THR	B	58	-25.396	37.157	3.124	1.00	16.41	B	C
ATOM	1650	C	THR	B	58	-23.555	38.174	1.199	1.00	15.99	B	C
ATOM	1651	O	THR	B	58	-23.375	39.167	1.887	1.00	15.59	B	O
ATOM	1652	N	LEU	B	59	-22.580	37.355	0.824	1.00	12.43	B	N
ATOM	1653	CA	LEU	B	59	-21.201	37.599	1.192	1.00	17.76	B	C
ATOM	1654	CB	LEU	B	59	-20.327	36.450	0.691	1.00	18.87	B	C
ATOM	1655	CG	LEU	B	59	-18.866	36.410	1.121	1.00	26.90	B	C
ATOM	1656	CD1	LEU	B	59	-18.747	36.382	2.682	1.00	25.05	B	C
ATOM	1657	CD2	LEU	B	59	-18.251	35.172	0.499	1.00	24.88	B	C
ATOM	1658	C	LEU	B	59	-20.721	38.917	0.573	1.00	19.29	B	C
ATOM	1659	O	LEU	B	59	-19.958	39.662	1.191	1.00	17.38	B	O
ATOM	1660	N	GLU	B	60	-21.182	39.214	-0.641	1.00	13.92	B	N
ATOM	1661	CA	GLU	B	60	-20.759	40.437	-1.296	1.00	18.14	B	C
ATOM	1662	CB	GLU	B	60	-21.295	40.465	-2.732	1.00	15.05	B	C
ATOM	1663	CG	GLU	B	60	-21.197	41.801	-3.394	1.00	21.88	B	C
ATOM	1664	CD	GLU	B	60	-22.313	42.010	-4.401	1.00	23.63	B	C
ATOM	1665	OE1	GLU	B	60	-22.032	42.577	-5.470	1.00	21.72	B	O
ATOM	1666	OE2	GLU	B	60	-23.467	41.610	-4.125	1.00	29.85	B	O
ATOM	1667	C	GLU	B	60	-21.192	41.676	-0.500	1.00	15.51	B	C
ATOM	1668	O	GLU	B	60	-20.427	42.626	-0.352	1.00	17.45	B	O
ATOM	1669	N	HIS	B	61	-22.408	41.671	0.020	1.00	15.12	B	N
ATOM	1670	CA	HIS	B	61	-22.864	42.800	0.818	1.00	17.43	B	C
ATOM	1671	CB	HIS	B	61	-24.303	42.612	1.303	1.00	19.80	B	C
ATOM	1672	CG	HIS	B	61	-25.328	42.926	0.272	1.00	25.59	B	C

Table 8

ATOM	1673	CD2	HIS	B	61	-25.322	42.765	-1.073	1.00	25.53	B C
ATOM	1674	ND1	HIS	B	61	-26.566	43.439	0.597	1.00	28.79	B N
ATOM	1675	CE1	HIS	B	61	-27.282	43.574	-0.505	1.00	26.43	B C
ATOM	1676	NE2	HIS	B	61	-26.550	43.173	-1.530	1.00	25.15	B N
ATOM	1677	C	HIS	B	61	-22.011	42.962	2.059	1.00	16.61	B C
ATOM	1678	O	HIS	B	61	-21.566	44.057	2.366	1.00	20.68	B O
ATOM	1679	N	LEU	B	62	-21.789	41.865	2.773	1.00	18.17	B N
ATOM	1680	CA	LEU	B	62	-21.022	41.926	4.012	1.00	19.88	B C
ATOM	1681	CB	LEU	B	62	-21.154	40.599	4.766	1.00	17.61	B C
ATOM	1682	CG	LEU	B	62	-22.609	40.217	5.065	1.00	21.12	B C
ATOM	1683	CD1	LEU	B	62	-22.667	38.879	5.814	1.00	22.27	B C
ATOM	1684	CD2	LEU	B	62	-23.260	41.308	5.891	1.00	23.67	B C
ATOM	1685	C	LEU	B	62	-19.550	42.254	3.786	1.00	20.74	B C
ATOM	1686	O	LEU	B	62	-18.993	43.138	4.445	1.00	20.29	B O
ATOM	1687	N	PHE	B	63	-18.956	41.544	2.832	1.00	18.96	B N
ATOM	1688	CA	PHE	B	63	-17.549	41.646	2.455	1.00	17.97	B C
ATOM	1689	CB	PHE	B	63	-17.265	40.553	1.417	1.00	19.18	B C
ATOM	1690	CG	PHE	B	63	-15.805	40.255	1.201	1.00	21.09	B C
ATOM	1691	CD1	PHE	B	63	-14.930	40.122	2.279	1.00	18.85	B C
ATOM	1692	CD2	PHE	B	63	-15.316	40.077	-0.099	1.00	19.95	B C
ATOM	1693	CE1	PHE	B	63	-13.575	39.815	2.064	1.00	16.98	B C
ATOM	1694	CE2	PHE	B	63	-13.975	39.771	-0.331	1.00	20.44	B C
ATOM	1695	CZ	PHE	B	63	-13.094	39.640	0.766	1.00	21.49	B C
ATOM	1696	C	PHE	B	63	-17.155	43.029	1.919	1.00	21.10	B C
ATOM	1697	O	PHE	B	63	-16.103	43.567	2.280	1.00	23.30	B O
ATOM	1698	N	ALA	B	64	-17.983	43.607	1.053	1.00	20.92	B N
ATOM	1699	CA	ALA	B	64	-17.681	44.921	0.515	1.00	21.25	B C
ATOM	1700	CB	ALA	B	64	-18.739	45.336	-0.510	1.00	20.14	B C
ATOM	1701	C	ALA	B	64	-17.634	45.937	1.656	1.00	23.05	B C
ATOM	1702	O	ALA	B	64	-16.895	46.903	1.580	1.00	25.97	B O
ATOM	1703	N	GLY	B	65	-18.442	45.730	2.697	1.00	21.59	B N
ATOM	1704	CA	GLY	B	65	-18.439	46.652	3.821	1.00	19.74	B C
ATOM	1705	C	GLY	B	65	-17.273	46.406	4.781	1.00	25.36	B C
ATOM	1706	O	GLY	B	65	-16.531	47.341	5.137	1.00	23.69	B O
ATOM	1707	N	PHE	B	66	-17.086	45.153	5.200	1.00	16.55	B N
ATOM	1708	CA	PHE	B	66	-15.999	44.844	6.118	1.00	21.18	B C
ATOM	1709	CB	PHE	B	66	-16.101	43.399	6.624	1.00	20.34	B C
ATOM	1710	CG	PHE	B	66	-17.351	43.121	7.430	1.00	23.79	B C
ATOM	1711	CD1	PHE	B	66	-17.838	44.061	8.343	1.00	26.48	B C
ATOM	1712	CD2	PHE	B	66	-18.044	41.916	7.274	1.00	25.26	B C
ATOM	1713	CE1	PHE	B	66	-19.002	43.806	9.086	1.00	25.90	B C
ATOM	1714	CE2	PHE	B	66	-19.213	41.647	8.014	1.00	23.66	B C
ATOM	1715	CZ	PHE	B	66	-19.694	42.585	8.916	1.00	22.96	B C
ATOM	1716	C	PHE	B	66	-14.594	45.092	5.555	1.00	19.41	B C
ATOM	1717	O	PHE	B	66	-13.725	45.552	6.286	1.00	20.38	B O
ATOM	1718	N	MSE	B	67	-14.361	44.772	4.280	1.00	17.44	B N
ATOM	1719	CA	MSE	B	67	-13.046	44.994	3.687	1.00	20.55	B C
ATOM	1720	CB	MSE	B	67	-12.991	44.468	2.244	1.00	19.00	B C
ATOM	1721	CG	MSE	B	67	-12.769	42.969	2.149	1.00	28.09	B C
ATOM	1722	SE	MSE	B	67	-11.073	42.427	3.011	1.00	32.34	B S
ATOM	1723	CE	MSE	B	67	-9.907	42.648	1.492	1.00	29.43	B C
ATOM	1724	C	MSE	B	67	-12.709	46.495	3.718	1.00	16.68	B C
ATOM	1725	O	MSE	B	67	-11.546	46.881	3.910	1.00	15.92	B O
ATOM	1726	N	ARG	B	68	-13.719	47.334	3.511	1.00	18.34	B N
ATOM	1727	CA	ARG	B	68	-13.494	48.765	3.564	1.00	21.14	B C
ATOM	1728	CB	ARG	B	68	-14.709	49.537	3.041	1.00	24.72	B C
ATOM	1729	CG	ARG	B	68	-14.886	49.473	1.506	1.00	24.84	B C

Table 8

ATOM	1730	CD	ARG	B	68	-16.094	50.309	1.064	1.00	21.98	B	C
ATOM	1731	NE	ARG	B	68	-16.122	50.577	-0.376	1.00	23.55	B	N
ATOM	1732	CZ	ARG	B	68	-16.586	49.738	-1.299	1.00	24.04	B	C
ATOM	1733	NH1	ARG	B	68	-16.569	50.093	-2.580	1.00	22.69	B	N
ATOM	1734	NH2	ARG	B	68	-17.056	48.541	-0.953	1.00	24.69	B	N
ATOM	1735	C	ARG	B	68	-13.183	49.159	5.009	1.00	24.39	B	C
ATOM	1736	O	ARG	B	68	-12.323	50.016	5.238	1.00	17.74	B	O
ATOM	1737	N	ASP	B	69	-13.847	48.524	5.979	1.00	24.02	B	N
ATOM	1738	CA	ASP	B	69	-13.594	48.842	7.387	1.00	23.47	B	C
ATOM	1739	CB	ASP	B	69	-14.517	48.062	8.340	1.00	29.08	B	C
ATOM	1740	CG	ASP	B	69	-15.989	48.361	8.123	1.00	33.86	B	C
ATOM	1741	OD1	ASP	B	69	-16.334	49.514	7.769	1.00	35.31	B	O
ATOM	1742	OD2	ASP	B	69	-16.811	47.438	8.325	1.00	37.41	B	O
ATOM	1743	C	ASP	B	69	-12.154	48.506	7.757	1.00	28.56	B	C
ATOM	1744	O	ASP	B	69	-11.489	49.275	8.452	1.00	26.86	B	O
ATOM	1745	N	HIS	B	70	-11.662	47.361	7.295	1.00	24.22	B	N
ATOM	1746	CA	HIS	B	70	-10.301	46.969	7.626	1.00	21.90	B	C
ATOM	1747	CB	HIS	B	70	-10.194	45.447	7.646	1.00	24.90	B	C
ATOM	1748	CG	HIS	B	70	-10.974	44.819	8.752	1.00	27.88	B	C
ATOM	1749	CD2	HIS	B	70	-12.025	43.968	8.735	1.00	27.56	B	C
ATOM	1750	ND1	HIS	B	70	-10.745	45.125	10.076	1.00	27.89	B	N
ATOM	1751	CE1	HIS	B	70	-11.628	44.491	10.829	1.00	31.73	B	C
ATOM	1752	NE2	HIS	B	70	-12.416	43.783	10.040	1.00	28.24	B	N
ATOM	1753	C	HIS	B	70	-9.200	47.502	6.736	1.00	27.28	B	C
ATOM	1754	O	HIS	B	70	-8.032	47.489	7.129	1.00	25.32	B	O
ATOM	1755	N	LEU	B	71	-9.554	47.969	5.544	1.00	23.98	B	N
ATOM	1756	CA	LEU	B	71	-8.544	48.422	4.590	1.00	24.20	B	C
ATOM	1757	CB	LEU	B	71	-8.719	47.610	3.309	1.00	26.35	B	C
ATOM	1758	CG	LEU	B	71	-7.572	46.825	2.710	1.00	30.70	B	C
ATOM	1759	CD1	LEU	B	71	-6.665	46.283	3.795	1.00	33.13	B	C
ATOM	1760	CD2	LEU	B	71	-8.164	45.705	1.845	1.00	32.16	B	C
ATOM	1761	C	LEU	B	71	-8.474	49.911	4.230	1.00	25.49	B	C
ATOM	1762	O	LEU	B	71	-7.395	50.431	3.946	1.00	23.82	B	O
ATOM	1763	N	ASN	B	72	-9.600	50.609	4.209	1.00	21.82	B	N
ATOM	1764	CA	ASN	B	72	-9.533	52.017	3.837	1.00	25.10	B	C
ATOM	1765	CB	ASN	B	72	-10.944	52.598	3.659	1.00	21.11	B	C
ATOM	1766	CG	ASN	B	72	-11.518	52.318	2.265	1.00	19.53	B	C
ATOM	1767	OD1	ASN	B	72	-10.788	51.939	1.349	1.00	20.66	B	O
ATOM	1768	ND2	ASN	B	72	-12.811	52.520	2.101	1.00	16.46	B	N
ATOM	1769	C	ASN	B	72	-8.709	52.855	4.828	1.00	32.36	B	C
ATOM	1770	O	ASN	B	72	-8.759	52.644	6.039	1.00	30.21	B	O
ATOM	1771	N	GLY	B	73	-7.922	53.788	4.299	1.00	34.08	B	N
ATOM	1772	CA	GLY	B	73	-7.107	54.620	5.159	1.00	35.14	B	C
ATOM	1773	C	GLY	B	73	-6.380	55.684	4.363	1.00	40.65	B	C
ATOM	1774	O	GLY	B	73	-6.681	55.881	3.184	1.00	34.39	B	O
ATOM	1775	N	ASP	B	74	-5.416	56.352	5.004	1.00	40.23	B	N
ATOM	1776	CA	ASP	B	74	-4.631	57.414	4.374	1.00	43.26	B	C
ATOM	1777	CB	ASP	B	74	-3.459	57.838	5.271	1.00	53.20	B	C
ATOM	1778	CG	ASP	B	74	-3.908	58.415	6.606	1.00	63.54	B	C
ATOM	1779	OD1	ASP	B	74	-4.902	59.177	6.632	1.00	67.10	B	O
ATOM	1780	OD2	ASP	B	74	-3.247	58.117	7.630	1.00	69.89	B	O
ATOM	1781	C	ASP	B	74	-4.049	57.041	3.022	1.00	40.46	B	C
ATOM	1782	O	ASP	B	74	-4.019	57.863	2.108	1.00	44.16	B	O
ATOM	1783	N	SER	B	75	-3.577	55.810	2.892	1.00	34.49	B	N
ATOM	1784	CA	SER	B	75	-2.955	55.386	1.643	1.00	35.89	B	C
ATOM	1785	CB	SER	B	75	-1.586	54.776	1.954	1.00	39.44	B	C
ATOM	1786	OG	SER	B	75	-0.809	55.665	2.740	1.00	50.72	B	O

Table 8

ATOM	1787	C	SER	B	75	-3.773	54.393	0.814	1.00	29.13	B	C
ATOM	1788	O	SER	B	75	-3.303	53.894	-0.203	1.00	22.79	B	O
ATOM	1789	N	ILE	B	76	-4.990	54.105	1.242	1.00	23.87	B	N
ATOM	1790	CA	ILE	B	76	-5.803	53.153	0.509	1.00	22.92	B	C
ATOM	1791	CB	ILE	B	76	-5.786	51.750	1.173	1.00	24.45	B	C
ATOM	1792	CG2	ILE	B	76	-6.816	50.824	0.482	1.00	22.66	B	C
ATOM	1793	CG1	ILE	B	76	-4.382	51.145	1.088	1.00	25.98	B	C
ATOM	1794	CD1	ILE	B	76	-4.222	49.857	1.873	1.00	31.78	B	C
ATOM	1795	C	ILE	B	76	-7.245	53.567	0.413	1.00	21.51	B	C
ATOM	1796	O	ILE	B	76	-7.859	53.940	1.408	1.00	19.18	B	O
ATOM	1797	N	GLU	B	77	-7.791	53.489	-0.795	1.00	23.10	B	N
ATOM	1798	CA	GLU	B	77	-9.198	53.789	-0.973	1.00	21.21	B	C
ATOM	1799	CB	GLU	B	77	-9.436	55.205	-1.496	1.00	26.97	B	C
ATOM	1800	CG	GLU	B	77	-10.915	55.438	-1.804	1.00	34.97	B	C
ATOM	1801	CD	GLU	B	77	-11.279	56.894	-2.088	1.00	41.85	B	C
ATOM	1802	OE1	GLU	B	77	-10.463	57.634	-2.684	1.00	47.73	B	O
ATOM	1803	OE2	GLU	B	77	-12.411	57.288	-1.731	1.00	39.52	B	O
ATOM	1804	C	GLU	B	77	-9.746	52.770	-1.951	1.00	16.81	B	C
ATOM	1805	O	GLU	B	77	-9.380	52.748	-3.127	1.00	20.40	B	O
ATOM	1806	N	ILE	B	78	-10.594	51.894	-1.440	1.00	14.83	B	N
ATOM	1807	CA	ILE	B	78	-11.213	50.868	-2.265	1.00	12.93	B	C
ATOM	1808	CB	ILE	B	78	-11.962	49.856	-1.364	1.00	12.15	B	C
ATOM	1809	CG2	ILE	B	78	-12.958	48.989	-2.179	1.00	11.83	B	C
ATOM	1810	CG1	ILE	B	78	-10.909	48.970	-0.681	1.00	10.60	B	C
ATOM	1811	CD1	ILE	B	78	-11.396	48.361	0.591	1.00	13.85	B	C
ATOM	1812	C	ILE	B	78	-12.160	51.509	-3.266	1.00	17.90	B	C
ATOM	1813	O	ILE	B	78	-12.985	52.376	-2.912	1.00	14.37	B	O
ATOM	1814	N	ILE	B	79	-12.012	51.088	-4.520	1.00	16.15	B	N
ATOM	1815	CA	ILE	B	79	-12.840	51.563	-5.617	1.00	16.76	B	C
ATOM	1816	CB	ILE	B	79	-12.075	51.489	-6.958	1.00	17.44	B	C
ATOM	1817	CG2	ILE	B	79	-13.007	51.847	-8.123	1.00	17.31	B	C
ATOM	1818	CG1	ILE	B	79	-10.856	52.418	-6.913	1.00	14.80	B	C
ATOM	1819	CD1	ILE	B	79	-9.868	52.174	-8.074	1.00	16.12	B	C
ATOM	1820	C	ILE	B	79	-14.092	50.689	-5.734	1.00	17.41	B	C
ATOM	1821	O	ILE	B	79	-15.201	51.202	-5.708	1.00	15.54	B	O
ATOM	1822	N	ASP	B	80	-13.898	49.374	-5.854	1.00	13.70	B	N
ATOM	1823	CA	ASP	B	80	-15.008	48.427	-6.005	1.00	15.35	B	C
ATOM	1824	CB	ASP	B	80	-15.458	48.387	-7.483	1.00	17.65	B	C
ATOM	1825	CG	ASP	B	80	-16.625	47.418	-7.723	1.00	24.46	B	C
ATOM	1826	OD1	ASP	B	80	-17.742	47.696	-7.230	1.00	24.01	B	O
ATOM	1827	OD2	ASP	B	80	-16.421	46.371	-8.393	1.00	27.50	B	O
ATOM	1828	C	ASP	B	80	-14.611	47.003	-5.579	1.00	16.02	B	C
ATOM	1829	O	ASP	B	80	-13.461	46.601	-5.718	1.00	17.78	B	O
ATOM	1830	N	ILE	B	81	-15.579	46.252	-5.071	1.00	16.37	B	N
ATOM	1831	CA	ILE	B	81	-15.382	44.860	-4.668	1.00	14.13	B	C
ATOM	1832	CB	ILE	B	81	-15.404	44.695	-3.151	1.00	16.25	B	C
ATOM	1833	CG2	ILE	B	81	-15.439	43.205	-2.771	1.00	16.65	B	C
ATOM	1834	CG1	ILE	B	81	-14.147	45.310	-2.541	1.00	20.06	B	C
ATOM	1835	CD1	ILE	B	81	-14.232	45.360	-1.047	1.00	20.85	B	C
ATOM	1836	C	ILE	B	81	-16.600	44.169	-5.258	1.00	16.00	B	C
ATOM	1837	O	ILE	B	81	-17.741	44.476	-4.883	1.00	13.99	B	O
ATOM	1838	N	SER	B	82	-16.357	43.259	-6.191	1.00	12.13	B	N
ATOM	1839	CA	SER	B	82	-17.435	42.534	-6.866	1.00	14.73	B	C
ATOM	1840	CB	SER	B	82	-17.655	43.092	-8.282	1.00	14.47	B	C
ATOM	1841	OG	SER	B	82	-18.079	44.448	-8.262	1.00	25.77	B	O
ATOM	1842	C	SER	B	82	-17.130	41.060	-7.017	1.00	14.23	B	C
ATOM	1843	O	SER	B	82	-15.963	40.665	-7.114	1.00	14.83	B	O

Table 8

ATOM	1844	N	PRO	B	83	-18.183	40.225	-7.070	1.00	13.27	B	N
ATOM	1845	CD	PRO	B	83	-19.602	40.607	-6.951	1.00	7.70	B	C
ATOM	1846	CA	PRO	B	83	-18.036	38.778	-7.229	1.00	9.25	B	C
ATOM	1847	CB	PRO	B	83	-19.422	38.256	-6.890	1.00	13.74	B	C
ATOM	1848	CG	PRO	B	83	-20.323	39.357	-7.420	1.00	14.01	B	C
ATOM	1849	C	PRO	B	83	-17.662	38.466	-8.681	1.00	16.70	B	C
ATOM	1850	O	PRO	B	83	-18.025	39.211	-9.599	1.00	15.62	B	O
ATOM	1851	N	MSE	B	84	-16.940	37.370	-8.890	1.00	12.77	B	N
ATOM	1852	CA	MSE	B	84	-16.558	36.966	-10.241	1.00	17.72	B	C
ATOM	1853	CB	MSE	B	84	-15.311	36.081	-10.203	1.00	13.97	B	C
ATOM	1854	CG	MSE	B	84	-14.071	36.748	-9.612	1.00	23.63	B	C
ATOM	1855	SE	MSE	B	84	-12.674	35.396	-9.346	1.00	33.40	B	S
ATOM	1856	CE	MSE	B	84	-11.227	36.610	-8.767	1.00	22.41	B	C
ATOM	1857	C	MSE	B	84	-17.710	36.142	-10.834	1.00	18.89	B	C
ATOM	1858	O	MSE	B	84	-18.462	35.500	-10.098	1.00	17.74	B	O
ATOM	1859	N	GLY	B	85	-17.830	36.142	-12.154	1.00	18.26	B	N
ATOM	1860	CA	GLY	B	85	-18.892	35.378	-12.795	1.00	17.19	B	C
ATOM	1861	C	GLY	B	85	-18.784	33.876	-12.566	1.00	18.41	B	C
ATOM	1862	O	GLY	B	85	-19.794	33.163	-12.517	1.00	15.57	B	O
ATOM	1863	N	CYS	B	86	-17.553	33.394	-12.427	1.00	11.24	B	N
ATOM	1864	CA	CYS	B	86	-17.297	31.989	-12.165	1.00	15.70	B	C
ATOM	1865	CB	CYS	B	86	-15.818	31.671	-12.461	1.00	19.35	B	C
ATOM	1866	SG	CYS	B	86	-14.638	32.707	-11.524	1.00	24.75	B	S
ATOM	1867	C	CYS	B	86	-17.635	31.616	-10.705	1.00	15.69	B	C
ATOM	1868	O	CYS	B	86	-17.582	30.443	-10.324	1.00	14.55	B	O
ATOM	1869	N	ARG	B	87	-17.986	32.617	-9.900	1.00	13.26	B	N
ATOM	1870	CA	ARG	B	87	-18.332	32.419	-8.485	1.00	16.24	B	C
ATOM	1871	CB	ARG	B	87	-19.678	31.675	-8.337	1.00	11.61	B	C
ATOM	1872	CG	ARG	B	87	-20.854	32.298	-9.100	1.00	15.78	B	C
ATOM	1873	CD	ARG	B	87	-22.183	31.873	-8.488	1.00	18.04	B	C
ATOM	1874	NE	ARG	B	87	-22.417	30.427	-8.514	1.00	17.12	B	N
ATOM	1875	CZ	ARG	B	87	-22.766	29.741	-9.600	1.00	23.47	B	C
ATOM	1876	NH1	ARG	B	87	-22.969	28.423	-9.530	1.00	17.30	B	N
ATOM	1877	NH2	ARG	B	87	-22.907	30.372	-10.759	1.00	19.21	B	N
ATOM	1878	C	ARG	B	87	-17.255	31.672	-7.681	1.00	19.89	B	C
ATOM	1879	O	ARG	B	87	-17.564	30.902	-6.759	1.00	17.17	B	O
ATOM	1880	N	THR	B	88	-15.991	31.906	-8.007	1.00	16.10	B	N
ATOM	1881	CA	THR	B	88	-14.925	31.249	-7.270	1.00	19.12	B	C
ATOM	1882	CB	THR	B	88	-13.985	30.503	-8.256	1.00	23.61	B	C
ATOM	1883	OG1	THR	B	88	-13.147	29.607	-7.530	1.00	43.10	B	O
ATOM	1884	CG2	THR	B	88	-13.109	31.470	-8.992	1.00	13.84	B	C
ATOM	1885	C	THR	B	88	-14.154	32.282	-6.429	1.00	22.62	B	C
ATOM	1886	O	THR	B	88	-13.178	31.949	-5.740	1.00	22.88	B	O
ATOM	1887	N	GLY	B	89	-14.625	33.531	-6.455	1.00	19.20	B	N
ATOM	1888	CA	GLY	B	89	-13.974	34.603	-5.705	1.00	20.02	B	C
ATOM	1889	C	GLY	B	89	-14.464	36.014	-6.025	1.00	17.42	B	C
ATOM	1890	O	GLY	B	89	-15.543	36.188	-6.604	1.00	18.21	B	O
ATOM	1891	N	PHE	B	90	-13.674	37.020	-5.639	1.00	17.55	B	N
ATOM	1892	CA	PHE	B	90	-13.998	38.435	-5.866	1.00	14.78	B	C
ATOM	1893	CB	PHE	B	90	-14.377	39.150	-4.550	1.00	16.14	B	C
ATOM	1894	CG	PHE	B	90	-15.682	38.700	-3.938	1.00	15.61	B	C
ATOM	1895	CD1	PHE	B	90	-15.781	37.464	-3.290	1.00	16.81	B	C
ATOM	1896	CD2	PHE	B	90	-16.806	39.512	-4.007	1.00	12.36	B	C
ATOM	1897	CE1	PHE	B	90	-16.988	37.049	-2.717	1.00	17.78	B	C
ATOM	1898	CE2	PHE	B	90	-18.038	39.100	-3.430	1.00	14.26	B	C
ATOM	1899	CZ	PHE	B	90	-18.117	37.865	-2.785	1.00	12.37	B	C
ATOM	1900	C	PHE	B	90	-12.808	39.228	-6.418	1.00	17.76	B	C

Table 8

ATOM	1901	O	PHE	B	90	-11.641	38.925	-6.140	1.00	15.10	B	O
ATOM	1902	N	TYR	B	91	-13.120	40.256	-7.197	1.00	14.28	B	N
ATOM	1903	CA	TYR	B	91	-12.116	41.169	-7.679	1.00	14.99	B	C
ATOM	1904	CB	TYR	B	91	-12.340	41.548	-9.142	1.00	17.62	B	C
ATOM	1905	CG	TYR	B	91	-11.608	40.629	-10.091	1.00	20.25	B	C
ATOM	1906	CD1	TYR	B	91	-12.305	39.728	-10.901	1.00	22.62	B	C
ATOM	1907	CE1	TYR	B	91	-11.627	38.845	-11.750	1.00	25.12	B	C
ATOM	1908	CD2	TYR	B	91	-10.218	40.631	-10.148	1.00	18.68	B	C
ATOM	1909	CE2	TYR	B	91	-9.526	39.752	-10.990	1.00	24.87	B	C
ATOM	1910	CZ	TYR	B	91	-10.241	38.863	-11.781	1.00	24.52	B	C
ATOM	1911	OH	TYR	B	91	-9.570	37.960	-12.559	1.00	33.38	B	O
ATOM	1912	C	TYR	B	91	-12.262	42.414	-6.809	1.00	16.01	B	C
ATOM	1913	O	TYR	B	91	-13.379	42.846	-6.486	1.00	16.83	B	O
ATOM	1914	N	MSE	B	92	-11.138	42.970	-6.384	1.00	17.72	B	N
ATOM	1915	CA	MSE	B	92	-11.175	44.195	-5.598	1.00	17.21	B	C
ATOM	1916	CB	MSE	B	92	-10.752	43.960	-4.150	1.00	12.81	B	C
ATOM	1917	CG	MSE	B	92	-10.606	45.283	-3.373	1.00	21.24	B	C
ATOM	1918	SE	MSE	B	92	-10.100	45.007	-1.513	1.00	26.89	B	S
ATOM	1919	CE	MSE	B	92	-11.546	45.738	-0.583	1.00	36.81	B	C
ATOM	1920	C	MSE	B	92	-10.211	45.178	-6.251	1.00	18.51	B	C
ATOM	1921	O	MSE	B	92	-9.023	44.900	-6.429	1.00	19.53	B	O
ATOM	1922	N	SER	B	93	-10.708	46.337	-6.605	1.00	16.06	B	N
ATOM	1923	CA	SER	B	93	-9.829	47.292	-7.227	1.00	17.38	B	C
ATOM	1924	CB	SER	B	93	-10.409	47.707	-8.582	1.00	13.73	B	C
ATOM	1925	OG	SER	B	93	-11.640	48.374	-8.428	1.00	31.38	B	O
ATOM	1926	C	SER	B	93	-9.714	48.448	-6.235	1.00	19.14	B	C
ATOM	1927	O	SER	B	93	-10.670	48.767	-5.536	1.00	15.24	B	O
ATOM	1928	N	LEU	B	94	-8.532	49.046	-6.122	1.00	15.87	B	N
ATOM	1929	CA	LEU	B	94	-8.374	50.130	-5.166	1.00	16.47	B	C
ATOM	1930	CB	LEU	B	94	-8.090	49.549	-3.759	1.00	13.96	B	C
ATOM	1931	CG	LEU	B	94	-6.973	48.499	-3.604	1.00	17.44	B	C
ATOM	1932	CD1	LEU	B	94	-5.605	49.168	-3.705	1.00	18.56	B	C
ATOM	1933	CD2	LEU	B	94	-7.091	47.781	-2.246	1.00	14.61	B	C
ATOM	1934	C	LEU	B	94	-7.292	51.120	-5.572	1.00	16.13	B	C
ATOM	1935	O	LEU	B	94	-6.491	50.853	-6.458	1.00	15.19	B	O
ATOM	1936	N	ILE	B	95	-7.319	52.291	-4.944	1.00	19.67	B	N
ATOM	1937	CA	ILE	B	95	-6.326	53.326	-5.205	1.00	17.53	B	C
ATOM	1938	CB	ILE	B	95	-6.916	54.736	-5.001	1.00	20.90	B	C
ATOM	1939	CG2	ILE	B	95	-5.805	55.795	-5.102	1.00	23.02	B	C
ATOM	1940	CG1	ILE	B	95	-7.993	54.997	-6.056	1.00	24.37	B	C
ATOM	1941	CD1	ILE	B	95	-8.902	56.188	-5.740	1.00	24.06	B	C
ATOM	1942	C	ILE	B	95	-5.290	53.054	-4.126	1.00	16.99	B	C
ATOM	1943	O	ILE	B	95	-5.621	53.023	-2.942	1.00	16.18	B	O
ATOM	1944	N	GLY	B	96	-4.050	52.825	-4.530	1.00	18.29	B	N
ATOM	1945	CA	GLY	B	96	-3.025	52.536	-3.552	1.00	17.34	B	C
ATOM	1946	C	GLY	B	96	-2.250	51.291	-3.944	1.00	24.94	B	C
ATOM	1947	O	GLY	B	96	-2.450	50.719	-5.041	1.00	18.38	B	O
ATOM	1948	N	THR	B	97	-1.393	50.837	-3.033	1.00	25.02	B	N
ATOM	1949	CA	THR	B	97	-0.564	49.696	-3.340	1.00	32.46	B	C
ATOM	1950	CB	THR	B	97	0.735	50.208	-3.962	1.00	41.11	B	C
ATOM	1951	OG1	THR	B	97	1.570	49.099	-4.309	1.00	55.46	B	O
ATOM	1952	CG2	THR	B	97	1.469	51.124	-2.969	1.00	40.73	B	C
ATOM	1953	C	THR	B	97	-0.236	48.743	-2.178	1.00	29.86	B	C
ATOM	1954	O	THR	B	97	0.928	48.422	-1.948	1.00	27.61	B	O
ATOM	1955	N	PRO	B	98	-1.256	48.276	-1.437	1.00	26.26	B	N
ATOM	1956	CD	PRO	B	98	-2.706	48.507	-1.584	1.00	26.12	B	C
ATOM	1957	CA	PRO	B	98	-0.985	47.361	-0.326	1.00	22.03	B	C

Table 8

ATOM	1958	CB	PRO	B	98	-2.340	47.249	0.355	1.00	23.70	B	C
ATOM	1959	CG	PRO	B	98	-3.289	47.348	-0.811	1.00	24.55	B	C
ATOM	1960	C	PRO	B	98	-0.529	46.031	-0.918	1.00	24.23	B	C
ATOM	1961	O	PRO	B	98	-0.856	45.726	-2.062	1.00	22.61	B	O
ATOM	1962	N	ASN	B	99	0.224	45.237	-0.163	1.00	21.10	B	N
ATOM	1963	CA	ASN	B	99	0.692	43.968	-0.707	1.00	23.83	B	C
ATOM	1964	CB	ASN	B	99	2.125	43.635	-0.220	1.00	18.56	B	C
ATOM	1965	CG	ASN	B	99	2.237	43.566	1.297	1.00	18.90	B	C
ATOM	1966	OD1	ASN	B	99	1.284	43.186	2.000	1.00	20.33	B	O
ATOM	1967	ND2	ASN	B	99	3.416	43.907	1.810	1.00	20.63	B	N
ATOM	1968	C	ASN	B	99	-0.273	42.847	-0.352	1.00	16.98	B	C
ATOM	1969	O	ASN	B	99	-1.261	43.065	0.339	1.00	21.56	B	O
ATOM	1970	N	GLU	B	100	0.025	41.638	-0.808	1.00	22.74	B	N
ATOM	1971	CA	GLU	B	100	-0.871	40.511	-0.553	1.00	16.55	B	C
ATOM	1972	CB	GLU	B	100	-0.315	39.240	-1.199	1.00	17.77	B	C
ATOM	1973	CG	GLU	B	100	-0.251	39.275	-2.732	1.00	18.75	B	C
ATOM	1974	CD	GLU	B	100	1.084	39.816	-3.266	1.00	27.21	B	C
ATOM	1975	OE1	GLU	B	100	1.432	39.489	-4.411	1.00	24.86	B	O
ATOM	1976	OE2	GLU	B	100	1.782	40.568	-2.557	1.00	25.28	B	O
ATOM	1977	C	GLU	B	100	-1.124	40.273	0.920	1.00	19.78	B	C
ATOM	1978	O	GLU	B	100	-2.264	39.993	1.347	1.00	20.12	B	O
ATOM	1979	N	GLN	B	101	-0.067	40.360	1.715	1.00	20.15	B	N
ATOM	1980	CA	GLN	B	101	-0.244	40.140	3.137	1.00	19.24	B	C
ATOM	1981	CB	GLN	B	101	1.085	40.253	3.885	1.00	23.50	B	C
ATOM	1982	CG	GLN	B	101	0.875	40.285	5.388	1.00	23.44	B	C
ATOM	1983	CD	GLN	B	101	2.177	40.194	6.183	1.00	28.16	B	C
ATOM	1984	OE1	GLN	B	101	3.282	40.353	5.640	1.00	23.10	B	O
ATOM	1985	NE2	GLN	B	101	2.044	39.957	7.481	1.00	21.49	B	N
ATOM	1986	C	GLN	B	101	-1.236	41.108	3.745	1.00	15.89	B	C
ATOM	1987	O	GLN	B	101	-2.136	40.707	4.482	1.00	14.80	B	O
ATOM	1988	N	LYS	B	102	-1.074	42.398	3.470	1.00	17.70	B	N
ATOM	1989	CA	LYS	B	102	-2.001	43.358	4.060	1.00	17.52	B	C
ATOM	1990	CB	LYS	B	102	-1.625	44.779	3.642	1.00	19.25	B	C
ATOM	1991	CG	LYS	B	102	-2.579	45.824	4.182	1.00	24.55	B	C
ATOM	1992	CD	LYS	B	102	-2.232	47.219	3.675	1.00	28.42	B	C
ATOM	1993	CE	LYS	B	102	-1.041	47.810	4.391	1.00	32.21	B	C
ATOM	1994	NZ	LYS	B	102	-1.343	47.940	5.847	1.00	33.83	B	N
ATOM	1995	C	LYS	B	102	-3.456	43.044	3.637	1.00	14.72	B	C
ATOM	1996	O	LYS	B	102	-4.389	43.154	4.425	1.00	14.84	B	O
ATOM	1997	N	VAL	B	103	-3.635	42.672	2.378	1.00	16.32	B	N
ATOM	1998	CA	VAL	B	103	-4.959	42.338	1.865	1.00	18.81	B	C
ATOM	1999	CB	VAL	B	103	-4.902	42.167	0.330	1.00	20.88	B	C
ATOM	2000	CG1	VAL	B	103	-6.220	41.620	-0.202	1.00	23.70	B	C
ATOM	2001	CG2	VAL	B	103	-4.605	43.534	-0.316	1.00	21.87	B	C
ATOM	2002	C	VAL	B	103	-5.480	41.057	2.524	1.00	16.56	B	C
ATOM	2003	O	VAL	B	103	-6.633	40.991	2.936	1.00	18.07	B	O
ATOM	2004	N	SER	B	104	-4.618	40.055	2.666	1.00	19.34	B	N
ATOM	2005	CA	SER	B	104	-5.043	38.791	3.269	1.00	19.68	B	C
ATOM	2006	CB	SER	B	104	-3.946	37.721	3.096	1.00	24.64	B	C
ATOM	2007	OG	SER	B	104	-3.061	37.746	4.192	1.00	37.72	B	O
ATOM	2008	C	SER	B	104	-5.419	38.913	4.749	1.00	19.86	B	C
ATOM	2009	O	SER	B	104	-6.308	38.199	5.243	1.00	16.98	B	O
ATOM	2010	N	GLU	B	105	-4.779	39.818	5.478	1.00	19.22	B	N
ATOM	2011	CA	GLU	B	105	-5.129	39.944	6.891	1.00	19.53	B	C
ATOM	2012	CB	GLU	B	105	-4.015	40.664	7.668	1.00	20.50	B	C
ATOM	2013	CG	GLU	B	105	-2.789	39.773	7.855	1.00	30.14	B	C
ATOM	2014	CD	GLU	B	105	-1.646	40.455	8.606	1.00	37.34	B	C

Table 8

ATOM	2015	OE1	GLU	B	105	-0.516	39.930	8.563	1.00	41.99	B O
ATOM	2016	OE2	GLU	B	105	-1.872	41.505	9.241	1.00	40.04	B O
ATOM	2017	C	GLU	B	105	-6.457	40.659	7.057	1.00	18.15	B C
ATOM	2018	O	GLU	B	105	-7.209	40.371	8.001	1.00	18.86	B O
ATOM	2019	N	ALA	B	106	-6.762	41.580	6.143	1.00	16.88	B N
ATOM	2020	CA	ALA	B	106	-8.037	42.299	6.209	1.00	15.74	B C
ATOM	2021	CB	ALA	B	106	-8.028	43.517	5.284	1.00	15.73	B C
ATOM	2022	C	ALA	B	106	-9.142	41.323	5.784	1.00	15.80	B C
ATOM	2023	O	ALA	B	106	-10.257	41.356	6.300	1.00	19.91	B O
ATOM	2024	N	TRP	B	107	-8.824	40.454	4.836	1.00	19.28	B N
ATOM	2025	CA	TRP	B	107	-9.789	39.458	4.371	1.00	16.49	B C
ATOM	2026	CB	TRP	B	107	-9.154	38.626	3.265	1.00	15.41	B C
ATOM	2027	CG	TRP	B	107	-10.002	37.552	2.640	1.00	15.85	B C
ATOM	2028	CD2	TRP	B	107	-9.648	36.777	1.495	1.00	13.23	B C
ATOM	2029	CE2	TRP	B	107	-10.665	35.813	1.303	1.00	15.78	B C
ATOM	2030	CE3	TRP	B	107	-8.560	36.798	0.611	1.00	11.14	B C
ATOM	2031	CD1	TRP	B	107	-11.201	37.052	3.089	1.00	15.97	B C
ATOM	2032	NE1	TRP	B	107	-11.606	35.997	2.286	1.00	14.56	B N
ATOM	2033	CZ2	TRP	B	107	-10.622	34.885	0.261	1.00	16.84	B C
ATOM	2034	CZ3	TRP	B	107	-8.517	35.869	-0.428	1.00	12.52	B C
ATOM	2035	CH2	TRP	B	107	-9.542	34.926	-0.590	1.00	14.75	B C
ATOM	2036	C	TRP	B	107	-10.123	38.570	5.579	1.00	22.49	B C
ATOM	2037	O	TRP	B	107	-11.291	38.427	5.962	1.00	25.16	B O
ATOM	2038	N	LEU	B	108	-9.089	38.003	6.195	1.00	21.77	B N
ATOM	2039	CA	LEU	B	108	-9.290	37.128	7.347	1.00	23.78	B C
ATOM	2040	CB	LEU	B	108	-7.942	36.692	7.927	1.00	24.56	B C
ATOM	2041	CG	LEU	B	108	-8.018	35.720	9.113	1.00	30.87	B C
ATOM	2042	CD1	LEU	B	108	-8.537	34.372	8.626	1.00	34.03	B C
ATOM	2043	CD2	LEU	B	108	-6.650	35.545	9.736	1.00	31.90	B C
ATOM	2044	C	LEU	B	108	-10.154	37.762	8.442	1.00	23.53	B C
ATOM	2045	O	LEU	B	108	-11.076	37.128	8.950	1.00	22.00	B O
ATOM	2046	N	ALA	B	109	-9.871	39.011	8.805	1.00	20.85	B N
ATOM	2047	CA	ALA	B	109	-10.663	39.674	9.831	1.00	21.46	B C
ATOM	2048	CB	ALA	B	109	-10.046	41.058	10.186	1.00	15.48	B C
ATOM	2049	C	ALA	B	109	-12.107	39.839	9.342	1.00	24.76	B C
ATOM	2050	O	ALA	B	109	-13.065	39.749	10.132	1.00	23.07	B O
ATOM	2051	N	SER	B	110	-12.265	40.062	8.038	1.00	20.51	B N
ATOM	2052	CA	SER	B	110	-13.596	40.227	7.464	1.00	19.58	B C
ATOM	2053	CB	SER	B	110	-13.485	40.675	5.995	1.00	24.18	B C
ATOM	2054	OG	SER	B	110	-12.961	41.990	5.887	1.00	20.87	B O
ATOM	2055	C	SER	B	110	-14.425	38.936	7.553	1.00	20.07	B C
ATOM	2056	O	SER	B	110	-15.660	38.989	7.628	1.00	22.18	B O
ATOM	2057	N	MSE	B	111	-13.768	37.777	7.517	1.00	19.85	B N
ATOM	2058	CA	MSE	B	111	-14.502	36.503	7.621	1.00	16.54	B C
ATOM	2059	CB	MSE	B	111	-13.582	35.327	7.254	1.00	19.53	B C
ATOM	2060	CG	MSE	B	111	-13.041	35.414	5.834	1.00	20.43	B C
ATOM	2061	SE	MSE	B	111	-14.462	35.299	4.472	1.00	30.86	B S
ATOM	2062	CE	MSE	B	111	-15.026	37.169	4.363	1.00	19.51	B C
ATOM	2063	C	MSE	B	111	-15.016	36.359	9.067	1.00	21.88	B C
ATOM	2064	O	MSE	B	111	-16.115	35.840	9.309	1.00	20.91	B O
ATOM	2065	N	GLN	B	112	-14.232	36.831	10.035	1.00	22.63	B N
ATOM	2066	CA	GLN	B	112	-14.672	36.748	11.425	1.00	22.96	B C
ATOM	2067	CB	GLN	B	112	-13.542	37.176	12.363	1.00	26.89	B C
ATOM	2068	CG	GLN	B	112	-12.332	36.250	12.301	1.00	30.31	B C
ATOM	2069	CD	GLN	B	112	-12.570	34.928	13.025	1.00	40.32	B C
ATOM	2070	OE1	GLN	B	112	-13.655	34.687	13.582	1.00	36.94	B O
ATOM	2071	NE2	GLN	B	112	-11.552	34.067	13.032	1.00	42.26	B N

Table 8

ATOM	2072	C	GLN	B	112	-15.886	37.656	11.579	1.00	24.95	B C
ATOM	2073	O	GLN	B	112	-16.858	37.303	12.251	1.00	24.02	B O
ATOM	2074	N	ASP	B	113	-15.830	38.819	10.930	1.00	23.11	B N
ATOM	2075	CA	ASP	B	113	-16.923	39.782	10.946	1.00	23.06	B C
ATOM	2076	CB	ASP	B	113	-16.552	41.000	10.108	1.00	24.72	B C
ATOM	2077	CG	ASP	B	113	-15.444	41.817	10.734	1.00	29.66	B C
ATOM	2078	OD1	ASP	B	113	-14.889	42.699	10.051	1.00	28.19	B O
ATOM	2079	OD2	ASP	B	113	-15.140	41.584	11.920	1.00	38.86	B O
ATOM	2080	C	ASP	B	113	-18.196	39.172	10.376	1.00	19.47	B C
ATOM	2081	O	ASP	B	113	-19.291	39.400	10.879	1.00	22.86	B O
ATOM	2082	N	VAL	B	114	-18.047	38.420	9.297	1.00	20.36	B N
ATOM	2083	CA	VAL	B	114	-19.187	37.785	8.651	1.00	16.30	B C
ATOM	2084	CB	VAL	B	114	-18.732	37.039	7.372	1.00	19.31	B C
ATOM	2085	CG1	VAL	B	114	-19.777	35.975	6.961	1.00	12.85	B C
ATOM	2086	CG2	VAL	B	114	-18.547	38.044	6.257	1.00	13.81	B C
ATOM	2087	C	VAL	B	114	-19.829	36.827	9.632	1.00	19.40	B C
ATOM	2088	O	VAL	B	114	-21.053	36.784	9.769	1.00	18.98	B O
ATOM	2089	N	LEU	B	115	-18.991	36.071	10.329	1.00	21.92	B N
ATOM	2090	CA	LEU	B	115	-19.471	35.131	11.333	1.00	27.00	B C
ATOM	2091	CB	LEU	B	115	-18.293	34.315	11.871	1.00	28.90	B C
ATOM	2092	CG	LEU	B	115	-18.036	32.930	11.255	1.00	32.76	B C
ATOM	2093	CD1	LEU	B	115	-18.794	32.740	9.962	1.00	32.96	B C
ATOM	2094	CD2	LEU	B	115	-16.555	32.740	11.050	1.00	36.92	B C
ATOM	2095	C	LEU	B	115	-20.203	35.852	12.482	1.00	28.77	B C
ATOM	2096	O	LEU	B	115	-21.102	35.285	13.096	1.00	30.29	B O
ATOM	2097	N	GLY	B	116	-19.837	37.104	12.749	1.00	25.70	B N
ATOM	2098	CA	GLY	B	116	-20.484	37.863	13.810	1.00	22.98	B C
ATOM	2099	C	GLY	B	116	-21.878	38.361	13.418	1.00	28.05	B C
ATOM	2100	O	GLY	B	116	-22.646	38.853	14.265	1.00	22.83	B O
ATOM	2101	N	VAL	B	117	-22.205	38.263	12.130	1.00	20.29	B N
ATOM	2102	CA	VAL	B	117	-23.518	38.670	11.657	1.00	25.09	B C
ATOM	2103	CB	VAL	B	117	-23.481	39.033	10.163	1.00	24.64	B C
ATOM	2104	CG1	VAL	B	117	-24.886	39.385	9.677	1.00	20.96	B C
ATOM	2105	CG2	VAL	B	117	-22.542	40.226	9.962	1.00	23.27	B C
ATOM	2106	C	VAL	B	117	-24.359	37.430	11.913	1.00	28.07	B C
ATOM	2107	O	VAL	B	117	-24.301	36.458	11.173	1.00	28.15	B O
ATOM	2108	N	GLN	B	118	-25.148	37.494	12.976	1.00	33.44	B N
ATOM	2109	CA	GLN	B	118	-25.931	36.364	13.453	1.00	40.01	B C
ATOM	2110	CB	GLN	B	118	-26.204	36.574	14.942	1.00	47.56	B C
ATOM	2111	CG	GLN	B	118	-26.123	35.319	15.768	1.00	64.59	B C
ATOM	2112	CD	GLN	B	118	-25.591	35.594	17.159	1.00	73.00	B C
ATOM	2113	OE1	GLN	B	118	-25.903	36.618	17.766	1.00	76.36	B O
ATOM	2114	NE2	GLN	B	118	-24.789	34.675	17.674	1.00	78.33	B N
ATOM	2115	C	GLN	B	118	-27.204	35.949	12.746	1.00	34.96	B C
ATOM	2116	O	GLN	B	118	-27.491	34.762	12.664	1.00	35.09	B O
ATOM	2117	N	ASP	B	119	-27.992	36.895	12.264	1.00	33.74	B N
ATOM	2118	CA	ASP	B	119	-29.204	36.505	11.555	1.00	38.33	B C
ATOM	2119	CB	ASP	B	119	-30.445	36.547	12.454	1.00	43.06	B C
ATOM	2120	CG	ASP	B	119	-30.826	37.949	12.849	1.00	51.31	B C
ATOM	2121	OD1	ASP	B	119	-32.039	38.222	13.002	1.00	57.96	B O
ATOM	2122	OD2	ASP	B	119	-29.908	38.779	13.015	1.00	57.06	B O
ATOM	2123	C	ASP	B	119	-29.417	37.407	10.362	1.00	37.85	B C
ATOM	2124	O	ASP	B	119	-29.110	38.612	10.392	1.00	33.03	B O
ATOM	2125	N	GLN	B	120	-29.958	36.810	9.311	1.00	33.69	B N
ATOM	2126	CA	GLN	B	120	-30.200	37.523	8.075	1.00	35.67	B C
ATOM	2127	CB	GLN	B	120	-30.789	36.546	7.060	1.00	31.25	B C
ATOM	2128	CG	GLN	B	120	-30.564	36.929	5.621	1.00	26.69	B C

Table 8

ATOM	2129	CD	GLN	B	120	-31.010	35.842	4.684	1.00	22.39	B C
ATOM	2130	OE1	GLN	B	120	-30.363	34.776	4.567	1.00	18.37	B O
ATOM	2131	NE2	GLN	B	120	-32.124	36.083	4.015	1.00	18.59	B N
ATOM	2132	C	GLN	B	120	-31.117	38.726	8.300	1.00	35.67	B C
ATOM	2133	O	GLN	B	120	-30.965	39.761	7.659	1.00	38.75	B O
ATOM	2134	N	ALA	B	121	-32.056	38.592	9.231	1.00	40.62	B N
ATOM	2135	CA	ALA	B	121	-32.985	39.671	9.542	1.00	43.35	B C
ATOM	2136	CB	ALA	B	121	-34.010	39.196	10.575	1.00	45.29	B C
ATOM	2137	C	ALA	B	121	-32.228	40.893	10.067	1.00	44.41	B C
ATOM	2138	O	ALA	B	121	-32.723	42.017	10.010	1.00	45.18	B O
ATOM	2139	N	SER	B	122	-31.019	40.667	10.566	1.00	44.93	B N
ATOM	2140	CA	SER	B	122	-30.187	41.745	11.091	1.00	45.02	B C
ATOM	2141	CB	SER	B	122	-29.084	41.158	11.970	1.00	47.28	B C
ATOM	2142	OG	SER	B	122	-28.171	42.156	12.375	1.00	59.89	B O
ATOM	2143	C	SER	B	122	-29.553	42.602	9.988	1.00	42.02	B C
ATOM	2144	O	SER	B	122	-29.037	43.686	10.256	1.00	44.61	B O
ATOM	2145	N	ILE	B	123	-29.583	42.109	8.754	1.00	38.74	B N
ATOM	2146	CA	ILE	B	123	-29.017	42.826	7.614	1.00	32.88	B C
ATOM	2147	CB	ILE	B	123	-28.544	41.824	6.544	1.00	35.64	B C
ATOM	2148	CG2	ILE	B	123	-27.785	42.561	5.429	1.00	32.81	B C
ATOM	2149	CG1	ILE	B	123	-27.644	40.775	7.218	1.00	29.70	B C
ATOM	2150	CD1	ILE	B	123	-27.130	39.670	6.299	1.00	33.43	B C
ATOM	2151	C	ILE	B	123	-30.114	43.748	7.082	1.00	32.43	B C
ATOM	2152	O	ILE	B	123	-31.039	43.315	6.387	1.00	34.01	B O
ATOM	2153	N	PRO	B	124	-30.012	45.043	7.398	1.00	32.70	B N
ATOM	2154	CD	PRO	B	124	-28.767	45.619	7.930	1.00	34.74	B C
ATOM	2155	CA	PRO	B	124	-30.947	46.113	7.030	1.00	35.32	B C
ATOM	2156	CB	PRO	B	124	-30.285	47.376	7.598	1.00	33.73	B C
ATOM	2157	CG	PRO	B	124	-29.267	46.865	8.579	1.00	38.75	B C
ATOM	2158	C	PRO	B	124	-31.328	46.320	5.568	1.00	35.58	B C
ATOM	2159	O	PRO	B	124	-32.510	46.490	5.250	1.00	34.08	B O
ATOM	2160	N	GLU	B	125	-30.333	46.312	4.684	1.00	36.19	B N
ATOM	2161	CA	GLU	B	125	-30.581	46.591	3.277	1.00	35.67	B C
ATOM	2162	CB	GLU	B	125	-29.287	47.071	2.595	1.00	38.24	B C
ATOM	2163	CG	GLU	B	125	-28.326	45.965	2.164	1.00	43.92	B C
ATOM	2164	CD	GLU	B	125	-27.448	45.449	3.292	1.00	48.00	B C
ATOM	2165	OE1	GLU	B	125	-27.620	45.919	4.444	1.00	50.26	B O
ATOM	2166	OE2	GLU	B	125	-26.584	44.577	3.019	1.00	43.47	B O
ATOM	2167	C	GLU	B	125	-31.234	45.515	2.418	1.00	33.57	B C
ATOM	2168	O	GLU	B	125	-31.337	45.695	1.210	1.00	31.09	B O
ATOM	2169	N	LEU	B	126	-31.696	44.419	3.017	1.00	29.88	B N
ATOM	2170	CA	LEU	B	126	-32.333	43.357	2.233	1.00	32.31	B C
ATOM	2171	CB	LEU	B	126	-32.140	41.998	2.921	1.00	26.78	B C
ATOM	2172	CG	LEU	B	126	-30.681	41.665	3.239	1.00	27.83	B C
ATOM	2173	CD1	LEU	B	126	-30.587	40.230	3.731	1.00	30.11	B C
ATOM	2174	CD2	LEU	B	126	-29.821	41.848	1.999	1.00	27.83	B C
ATOM	2175	C	LEU	B	126	-33.827	43.611	1.982	1.00	34.11	B C
ATOM	2176	O	LEU	B	126	-34.677	42.863	2.461	1.00	33.94	B O
ATOM	2177	N	ASN	B	127	-34.131	44.660	1.216	1.00	29.00	B N
ATOM	2178	CA	ASN	B	127	-35.508	45.036	0.905	1.00	29.15	B C
ATOM	2179	CB	ASN	B	127	-35.956	46.130	1.873	1.00	28.94	B C
ATOM	2180	CG	ASN	B	127	-34.996	47.301	1.891	1.00	25.68	B C
ATOM	2181	OD1	ASN	B	127	-34.953	48.103	0.950	1.00	23.22	B O
ATOM	2182	ND2	ASN	B	127	-34.201	47.393	2.948	1.00	26.91	B N
ATOM	2183	C	ASN	B	127	-35.533	45.554	-0.526	1.00	28.32	B C
ATOM	2184	O	ASN	B	127	-34.473	45.779	-1.113	1.00	27.88	B O
ATOM	2185	N	ILE	B	128	-36.719	45.764	-1.089	1.00	24.80	B N

Table 8

ATOM	2186	CA	ILE	B	128	-36.802	46.219	-2.474	1.00	28.66	B C
ATOM	2187	CB	ILE	B	128	-38.253	46.251	-3.012	1.00	29.93	B C
ATOM	2188	CG2	ILE	B	128	-38.851	44.871	-2.987	1.00	30.42	B C
ATOM	2189	CG1	ILE	B	128	-39.078	47.249	-2.203	1.00	33.89	B C
ATOM	2190	CD1	ILE	B	128	-40.394	47.634	-2.870	1.00	32.59	B C
ATOM	2191	C	ILE	B	128	-36.217	47.594	-2.750	1.00	24.78	B C
ATOM	2192	O	ILE	B	128	-35.894	47.900	-3.887	1.00	28.73	B O
ATOM	2193	N	TYR	B	129	-36.090	48.426	-1.724	1.00	29.94	B N
ATOM	2194	CA	TYR	B	129	-35.548	49.766	-1.915	1.00	27.49	B C
ATOM	2195	CB	TYR	B	129	-35.985	50.662	-0.750	1.00	29.81	B C
ATOM	2196	CG	TYR	B	129	-37.482	50.740	-0.606	1.00	31.38	B C
ATOM	2197	CD1	TYR	B	129	-38.240	51.493	-1.494	1.00	29.25	B C
ATOM	2198	CE1	TYR	B	129	-39.628	51.501	-1.424	1.00	34.22	B C
ATOM	2199	CD2	TYR	B	129	-38.147	49.998	0.371	1.00	31.58	B C
ATOM	2200	CE2	TYR	B	129	-39.529	49.999	0.453	1.00	32.56	B C
ATOM	2201	CZ	TYR	B	129	-40.263	50.748	-0.449	1.00	34.52	B C
ATOM	2202	OH	TYR	B	129	-41.637	50.731	-0.396	1.00	41.10	B O
ATOM	2203	C	TYR	B	129	-34.022	49.825	-2.047	1.00	27.98	B C
ATOM	2204	O	TYR	B	129	-33.486	50.567	-2.883	1.00	24.87	B O
ATOM	2205	N	GLN	B	130	-33.327	49.030	-1.241	1.00	27.91	B N
ATOM	2206	CA	GLN	B	130	-31.863	49.068	-1.214	1.00	28.37	B C
ATOM	2207	CB	GLN	B	130	-31.412	49.188	0.238	1.00	26.98	B C
ATOM	2208	CG	GLN	B	130	-32.035	50.338	1.006	1.00	27.38	B C
ATOM	2209	CD	GLN	B	130	-31.564	50.343	2.448	1.00	29.57	B C
ATOM	2210	OE1	GLN	B	130	-32.048	49.571	3.271	1.00	26.89	B O
ATOM	2211	NE2	GLN	B	130	-30.594	51.187	2.748	1.00	25.43	B N
ATOM	2212	C	GLN	B	130	-31.060	47.945	-1.865	1.00	27.72	B C
ATOM	2213	O	GLN	B	130	-29.831	48.011	-1.890	1.00	27.39	B O
ATOM	2214	N	CYS	B	131	-31.736	46.917	-2.363	1.00	28.87	B N
ATOM	2215	CA	CYS	B	131	-31.064	45.770	-2.993	1.00	23.43	B C
ATOM	2216	CB	CYS	B	131	-31.099	44.574	-2.035	1.00	22.34	B C
ATOM	2217	SG	CYS	B	131	-30.288	43.042	-2.593	1.00	21.60	B S
ATOM	2218	C	CYS	B	131	-31.781	45.437	-4.302	1.00	24.24	B C
ATOM	2219	O	CYS	B	131	-32.998	45.592	-4.396	1.00	24.17	B O
ATOM	2220	N	GLY	B	132	-31.026	44.989	-5.303	1.00	19.93	B N
ATOM	2221	CA	GLY	B	132	-31.593	44.655	-6.601	1.00	19.38	B C
ATOM	2222	C	GLY	B	132	-32.342	43.335	-6.751	1.00	21.04	B C
ATOM	2223	O	GLY	B	132	-33.146	43.162	-7.675	1.00	22.41	B O
ATOM	2224	N	SER	B	133	-32.070	42.398	-5.856	1.00	18.91	B N
ATOM	2225	CA	SER	B	133	-32.704	41.079	-5.854	1.00	18.67	B C
ATOM	2226	CB	SER	B	133	-31.862	40.095	-6.671	1.00	19.39	B C
ATOM	2227	OG	SER	B	133	-31.699	40.543	-8.024	1.00	21.52	B O
ATOM	2228	C	SER	B	133	-32.686	40.700	-4.371	1.00	19.46	B C
ATOM	2229	O	SER	B	133	-31.933	39.822	-3.940	1.00	19.88	B O
ATOM	2230	N	TYR	B	134	-33.529	41.372	-3.599	1.00	16.16	B N
ATOM	2231	CA	TYR	B	134	-33.539	41.192	-2.165	1.00	18.65	B C
ATOM	2232	CB	TYR	B	134	-34.450	42.252	-1.512	1.00	24.25	B C
ATOM	2233	CG	TYR	B	134	-35.910	41.879	-1.395	1.00	25.91	B C
ATOM	2234	CD1	TYR	B	134	-36.760	41.949	-2.501	1.00	27.28	B C
ATOM	2235	CE1	TYR	B	134	-38.113	41.608	-2.392	1.00	28.22	B C
ATOM	2236	CD2	TYR	B	134	-36.445	41.457	-0.168	1.00	29.45	B C
ATOM	2237	CE2	TYR	B	134	-37.799	41.111	-0.048	1.00	28.81	B C
ATOM	2238	CZ	TYR	B	134	-38.622	41.187	-1.166	1.00	27.23	B C
ATOM	2239	OH	TYR	B	134	-39.941	40.806	-1.084	1.00	26.47	B O
ATOM	2240	C	TYR	B	134	-33.826	39.804	-1.597	1.00	19.99	B C
ATOM	2241	O	TYR	B	134	-33.459	39.551	-0.468	1.00	20.36	B O
ATOM	2242	N	THR	B	135	-34.446	38.905	-2.360	1.00	21.33	B N

Table 8

ATOM	2243	CA	THR	B	135	-34.705	37.553	-1.851	1.00	21.58	B	C
ATOM	2244	CB	THR	B	135	-35.991	36.915	-2.443	1.00	19.30	B	C
ATOM	2245	OG1	THR	B	135	-35.792	36.649	-3.826	1.00	23.86	B	O
ATOM	2246	CG2	THR	B	135	-37.188	37.827	-2.292	1.00	23.33	B	C
ATOM	2247	C	THR	B	135	-33.561	36.599	-2.203	1.00	24.22	B	C
ATOM	2248	O	THR	B	135	-33.516	35.468	-1.701	1.00	22.32	B	O
ATOM	2249	N	GLU	B	136	-32.637	37.037	-3.060	1.00	18.26	B	N
ATOM	2250	CA	GLU	B	136	-31.527	36.165	-3.472	1.00	20.24	B	C
ATOM	2251	CB	GLU	B	136	-30.992	36.595	-4.850	1.00	22.99	B	C
ATOM	2252	CG	GLU	B	136	-31.899	36.254	-6.027	1.00	33.82	B	C
ATOM	2253	CD	GLU	B	136	-31.965	34.757	-6.326	1.00	36.31	B	C
ATOM	2254	OE1	GLU	B	136	-30.911	34.076	-6.304	1.00	39.82	B	O
ATOM	2255	OE2	GLU	B	136	-33.077	34.266	-6.600	1.00	41.67	B	O
ATOM	2256	C	GLU	B	136	-30.392	36.163	-2.464	1.00	19.09	B	C
ATOM	2257	O	GLU	B	136	-29.254	36.504	-2.792	1.00	23.33	B	O
ATOM	2258	N	HIS	B	137	-30.688	35.722	-1.246	1.00	17.67	B	N
ATOM	2259	CA	HIS	B	137	-29.705	35.741	-0.176	1.00	16.34	B	C
ATOM	2260	CB	HIS	B	137	-30.000	36.932	0.742	1.00	16.73	B	C
ATOM	2261	CG	HIS	B	137	-29.515	38.240	0.200	1.00	22.77	B	C
ATOM	2262	CD2	HIS	B	137	-30.187	39.303	-0.310	1.00	18.52	B	C
ATOM	2263	ND1	HIS	B	137	-28.175	38.552	0.112	1.00	18.83	B	N
ATOM	2264	CE1	HIS	B	137	-28.041	39.754	-0.428	1.00	24.50	B	C
ATOM	2265	NE2	HIS	B	137	-29.247	40.230	-0.693	1.00	23.84	B	N
ATOM	2266	C	HIS	B	137	-29.628	34.497	0.683	1.00	19.94	B	C
ATOM	2267	O	HIS	B	137	-30.615	33.764	0.842	1.00	16.73	B	O
ATOM	2268	N	SER	B	138	-28.460	34.274	1.263	1.00	16.69	B	N
ATOM	2269	CA	SER	B	138	-28.292	33.134	2.164	1.00	19.51	B	C
ATOM	2270	CB	SER	B	138	-28.059	31.836	1.389	1.00	19.13	B	C
ATOM	2271	OG	SER	B	138	-27.920	30.759	2.320	1.00	20.85	B	O
ATOM	2272	C	SER	B	138	-27.147	33.347	3.157	1.00	17.76	B	C
ATOM	2273	O	SER	B	138	-25.980	33.085	2.860	1.00	13.51	B	O
ATOM	2274	N	LEU	B	139	-27.493	33.819	4.349	1.00	19.96	B	N
ATOM	2275	CA	LEU	B	139	-26.501	34.057	5.381	1.00	19.56	B	C
ATOM	2276	CB	LEU	B	139	-27.164	34.677	6.608	1.00	23.30	B	C
ATOM	2277	CG	LEU	B	139	-26.452	35.775	7.396	1.00	29.28	B	C
ATOM	2278	CD1	LEU	B	139	-26.980	35.769	8.832	1.00	25.11	B	C
ATOM	2279	CD2	LEU	B	139	-24.952	35.603	7.355	1.00	23.09	B	C
ATOM	2280	C	LEU	B	139	-25.854	32.724	5.766	1.00	20.29	B	C
ATOM	2281	O	LEU	B	139	-24.674	32.675	6.119	1.00	21.06	B	O
ATOM	2282	N	GLU	B	140	-26.619	31.639	5.696	1.00	21.77	B	N
ATOM	2283	CA	GLU	B	140	-26.053	30.330	6.033	1.00	21.91	B	C
ATOM	2284	CB	GLU	B	140	-27.108	29.223	6.000	1.00	21.15	B	C
ATOM	2285	CG	GLU	B	140	-28.152	29.369	7.062	1.00	24.65	B	C
ATOM	2286	CD	GLU	B	140	-29.306	30.217	6.578	1.00	32.04	B	C
ATOM	2287	OE1	GLU	B	140	-29.390	30.475	5.348	1.00	31.96	B	O
ATOM	2288	OE2	GLU	B	140	-30.135	30.611	7.419	1.00	34.64	B	O
ATOM	2289	C	GLU	B	140	-24.924	29.936	5.099	1.00	19.73	B	C
ATOM	2290	O	GLU	B	140	-23.927	29.363	5.545	1.00	19.14	B	O
ATOM	2291	N	ASP	B	141	-25.077	30.202	3.803	1.00	17.20	B	N
ATOM	2292	CA	ASP	B	141	-23.999	29.855	2.861	1.00	14.44	B	C
ATOM	2293	CB	ASP	B	141	-24.424	30.033	1.397	1.00	17.16	B	C
ATOM	2294	CG	ASP	B	141	-25.451	29.001	0.953	1.00	26.32	B	C
ATOM	2295	OD1	ASP	B	141	-25.728	28.074	1.748	1.00	29.13	B	O
ATOM	2296	OD2	ASP	B	141	-25.978	29.120	-0.184	1.00	21.72	B	O
ATOM	2297	C	ASP	B	141	-22.828	30.780	3.135	1.00	14.88	B	C
ATOM	2298	O	ASP	B	141	-21.684	30.350	3.125	1.00	16.81	B	O
ATOM	2299	N	ALA	B	142	-23.119	32.058	3.378	1.00	15.16	B	N

Table 8

ATOM	2300	CA	ALA	B	142	-22.044	33.010	3.654	1.00	16.96	B	C
ATOM	2301	CB	ALA	B	142	-22.611	34.419	3.841	1.00	14.72	B	C
ATOM	2302	C	ALA	B	142	-21.262	32.563	4.902	1.00	18.56	B	C
ATOM	2303	O	ALA	B	142	-20.030	32.560	4.896	1.00	16.88	B	O
ATOM	2304	N	HIS	B	143	-21.973	32.184	5.966	1.00	16.26	B	N
ATOM	2305	CA	HIS	B	143	-21.297	31.722	7.170	1.00	16.15	B	C
ATOM	2306	CB	HIS	B	143	-22.324	31.353	8.256	1.00	19.54	B	C
ATOM	2307	CG	HIS	B	143	-22.872	32.543	8.976	1.00	23.01	B	C
ATOM	2308	CD2	HIS	B	143	-22.475	33.840	8.974	1.00	24.52	B	C
ATOM	2309	ND1	HIS	B	143	-23.943	32.472	9.843	1.00	26.15	B	N
ATOM	2310	CE1	HIS	B	143	-24.181	33.673	10.342	1.00	24.90	B	C
ATOM	2311	NE2	HIS	B	143	-23.303	34.520	9.831	1.00	22.58	B	N
ATOM	2312	C	HIS	B	143	-20.416	30.530	6.849	1.00	19.69	B	C
ATOM	2313	O	HIS	B	143	-19.257	30.467	7.281	1.00	18.85	B	O
ATOM	2314	N	GLU	B	144	-20.956	29.585	6.083	1.00	22.18	B	N
ATOM	2315	CA	GLU	B	144	-20.196	28.398	5.723	1.00	17.90	B	C
ATOM	2316	CB	GLU	B	144	-21.088	27.439	4.941	1.00	29.92	B	C
ATOM	2317	CG	GLU	B	144	-20.387	26.200	4.425	1.00	45.35	B	C
ATOM	2318	CD	GLU	B	144	-21.304	25.347	3.559	1.00	58.91	B	C
ATOM	2319	OE1	GLU	B	144	-22.246	24.731	4.106	1.00	65.79	B	O
ATOM	2320	OE2	GLU	B	144	-21.090	25.303	2.326	1.00	66.36	B	O
ATOM	2321	C	GLU	B	144	-18.943	28.770	4.915	1.00	21.66	B	C
ATOM	2322	O	GLU	B	144	-17.860	28.189	5.101	1.00	20.15	B	O
ATOM	2323	N	ILE	B	145	-19.064	29.733	4.013	1.00	17.36	B	N
ATOM	2324	CA	ILE	B	145	-17.900	30.130	3.246	1.00	18.48	B	C
ATOM	2325	CB	ILE	B	145	-18.287	31.140	2.145	1.00	18.23	B	C
ATOM	2326	CG2	ILE	B	145	-17.014	31.634	1.383	1.00	18.80	B	C
ATOM	2327	CG1	ILE	B	145	-19.197	30.447	1.124	1.00	14.72	B	C
ATOM	2328	CD1	ILE	B	145	-19.978	31.439	0.258	1.00	13.81	B	C
ATOM	2329	C	ILE	B	145	-16.847	30.742	4.179	1.00	20.58	B	C
ATOM	2330	O	ILE	B	145	-15.661	30.398	4.109	1.00	18.97	B	O
ATOM	2331	N	ALA	B	146	-17.284	31.627	5.069	1.00	17.79	B	N
ATOM	2332	CA	ALA	B	146	-16.358	32.280	5.996	1.00	22.89	B	C
ATOM	2333	CB	ALA	B	146	-17.127	33.264	6.893	1.00	21.68	B	C
ATOM	2334	C	ALA	B	146	-15.579	31.277	6.854	1.00	22.96	B	C
ATOM	2335	O	ALA	B	146	-14.340	31.359	6.972	1.00	22.89	B	O
ATOM	2336	N	LYS	B	147	-16.297	30.328	7.448	1.00	21.87	B	N
ATOM	2337	CA	LYS	B	147	-15.659	29.318	8.300	1.00	27.60	B	C
ATOM	2338	CB	LYS	B	147	-16.696	28.343	8.884	1.00	29.70	B	C
ATOM	2339	CG	LYS	B	147	-17.687	28.959	9.830	1.00	35.95	B	C
ATOM	2340	CD	LYS	B	147	-18.700	27.917	10.316	1.00	45.85	B	C
ATOM	2341	CE	LYS	B	147	-19.874	28.573	11.031	1.00	50.13	B	C
ATOM	2342	NZ	LYS	B	147	-20.838	27.578	11.577	1.00	54.92	B	N
ATOM	2343	C	LYS	B	147	-14.647	28.527	7.504	1.00	25.51	B	C
ATOM	2344	O	LYS	B	147	-13.561	28.214	7.990	1.00	32.24	B	O
ATOM	2345	N	ASN	B	148	-14.996	28.197	6.272	1.00	23.58	B	N
ATOM	2346	CA	ASN	B	148	-14.077	27.447	5.451	1.00	23.81	B	C
ATOM	2347	CB	ASN	B	148	-14.779	26.998	4.173	1.00	33.16	B	C
ATOM	2348	CG	ASN	B	148	-13.849	26.280	3.231	1.00	44.31	B	C
ATOM	2349	OD1	ASN	B	148	-13.200	26.901	2.387	1.00	47.81	B	O
ATOM	2350	ND2	ASN	B	148	-13.759	24.961	3.380	1.00	52.58	B	N
ATOM	2351	C	ASN	B	148	-12.798	28.240	5.137	1.00	23.44	B	C
ATOM	2352	O	ASN	B	148	-11.704	27.671	5.128	1.00	23.38	B	O
ATOM	2353	N	VAL	B	149	-12.915	29.540	4.874	1.00	19.56	B	N
ATOM	2354	CA	VAL	B	149	-11.718	30.345	4.598	1.00	21.00	B	C
ATOM	2355	CB	VAL	B	149	-12.077	31.785	4.146	1.00	17.37	B	C
ATOM	2356	CG1	VAL	B	149	-10.811	32.674	4.180	1.00	13.21	B	C

Table 8

ATOM	2357	CG2	VAL	B	149	-12.666	31.743	2.714	1.00	14.56	B	C
ATOM	2358	C	VAL	B	149	-10.854	30.443	5.860	1.00	22.28	B	C
ATOM	2359	O	VAL	B	149	-9.626	30.413	5.801	1.00	25.92	B	O
ATOM	2360	N	ILE	B	150	-11.504	30.575	7.002	1.00	20.88	B	N
ATOM	2361	CA	ILE	B	150	-10.774	30.679	8.258	1.00	27.36	B	C
ATOM	2362	CB	ILE	B	150	-11.728	31.027	9.407	1.00	26.75	B	C
ATOM	2363	CG2	ILE	B	150	-11.066	30.754	10.742	1.00	25.65	B	C
ATOM	2364	CG1	ILE	B	150	-12.146	32.497	9.282	1.00	23.57	B	C
ATOM	2365	CD1	ILE	B	150	-13.277	32.897	10.184	1.00	23.29	B	C
ATOM	2366	C	ILE	B	150	-10.052	29.365	8.550	1.00	31.38	B	C
ATOM	2367	O	ILE	B	150	-8.882	29.355	8.937	1.00	31.55	B	O
ATOM	2368	N	ALA	B	151	-10.740	28.253	8.331	1.00	27.64	B	N
ATOM	2369	CA	ALA	B	151	-10.141	26.960	8.587	1.00	28.72	B	C
ATOM	2370	CB	ALA	B	151	-11.216	25.847	8.552	1.00	24.54	B	C
ATOM	2371	C	ALA	B	151	-9.033	26.647	7.595	1.00	29.72	B	C
ATOM	2372	O	ALA	B	151	-8.037	26.039	7.959	1.00	28.35	B	O
ATOM	2373	N	ARG	B	152	-9.175	27.060	6.345	1.00	28.96	B	N
ATOM	2374	CA	ARG	B	152	-8.128	26.743	5.385	1.00	28.15	B	C
ATOM	2375	CB	ARG	B	152	-8.725	26.623	3.978	1.00	32.62	B	C
ATOM	2376	CG	ARG	B	152	-9.653	25.407	3.834	1.00	38.05	B	C
ATOM	2377	CD	ARG	B	152	-10.459	25.434	2.542	1.00	48.28	B	C
ATOM	2378	NE	ARG	B	152	-9.649	25.182	1.351	1.00	59.94	B	N
ATOM	2379	CZ	ARG	B	152	-10.091	25.333	0.104	1.00	66.11	B	C
ATOM	2380	NH1	ARG	B	152	-11.335	25.741	-0.116	1.00	69.90	B	N
ATOM	2381	NH2	ARG	B	152	-9.294	25.073	-0.924	1.00	67.76	B	N
ATOM	2382	C	ARG	B	152	-6.941	27.694	5.375	1.00	31.16	B	C
ATOM	2383	O	ARG	B	152	-5.846	27.313	4.956	1.00	31.67	B	O
ATOM	2384	N	GLY	B	153	-7.133	28.916	5.864	1.00	26.54	B	N
ATOM	2385	CA	GLY	B	153	-6.042	29.870	5.849	1.00	27.98	B	C
ATOM	2386	C	GLY	B	153	-5.988	30.510	4.470	1.00	27.23	B	C
ATOM	2387	O	GLY	B	153	-6.464	29.926	3.496	1.00	24.67	B	O
ATOM	2388	N	ILE	B	154	-5.418	31.706	4.386	1.00	26.67	B	N
ATOM	2389	CA	ILE	B	154	-5.332	32.427	3.118	1.00	28.04	B	C
ATOM	2390	CB	ILE	B	154	-5.696	33.923	3.279	1.00	27.32	B	C
ATOM	2391	CG2	ILE	B	154	-5.799	34.575	1.912	1.00	21.34	B	C
ATOM	2392	CG1	ILE	B	154	-6.936	34.075	4.167	1.00	31.67	B	C
ATOM	2393	CD1	ILE	B	154	-8.165	34.552	3.499	1.00	31.37	B	C
ATOM	2394	C	ILE	B	154	-3.906	32.399	2.615	1.00	23.96	B	C
ATOM	2395	O	ILE	B	154	-3.012	32.848	3.309	1.00	23.88	B	O
ATOM	2396	N	GLY	B	155	-3.704	31.901	1.402	1.00	25.41	B	N
ATOM	2397	CA	GLY	B	155	-2.373	31.867	0.829	1.00	22.10	B	C
ATOM	2398	C	GLY	B	155	-2.165	32.987	-0.188	1.00	27.20	B	C
ATOM	2399	O	GLY	B	155	-2.869	34.017	-0.181	1.00	20.03	B	O
ATOM	2400	N	VAL	B	156	-1.208	32.774	-1.083	1.00	24.63	B	N
ATOM	2401	CA	VAL	B	156	-0.877	33.755	-2.096	1.00	26.11	B	C
ATOM	2402	CB	VAL	B	156	0.367	34.580	-1.693	1.00	26.84	B	C
ATOM	2403	CG1	VAL	B	156	0.762	35.509	-2.830	1.00	25.49	B	C
ATOM	2404	CG2	VAL	B	156	0.086	35.379	-0.447	1.00	26.75	B	C
ATOM	2405	C	VAL	B	156	-0.537	33.092	-3.406	1.00	26.27	B	C
ATOM	2406	O	VAL	B	156	0.070	32.020	-3.430	1.00	27.80	B	O
ATOM	2407	N	ASN	B	157	-0.948	33.721	-4.500	1.00	24.35	B	N
ATOM	2408	CA	ASN	B	157	-0.607	33.229	-5.826	1.00	26.07	B	C
ATOM	2409	CB	ASN	B	157	-1.846	32.868	-6.670	1.00	25.62	B	C
ATOM	2410	CG	ASN	B	157	-2.541	31.591	-6.205	1.00	31.07	B	C
ATOM	2411	OD1	ASN	B	157	-1.903	30.555	-5.987	1.00	24.68	B	O
ATOM	2412	ND2	ASN	B	157	-3.867	31.659	-6.075	1.00	20.00	B	N
ATOM	2413	C	ASN	B	157	0.095	34.397	-6.509	1.00	29.17	B	C

Table 8

ATOM	2414	O	ASN	B	157	-0.352	35.546	-6.408	1.00	28.18	B O
ATOM	2415	N	LYS	B	158	1.208	34.142	-7.174	1.00	29.86	B N
ATOM	2416	CA	LYS	B	158	1.832	35.241	-7.895	1.00	34.97	B C
ATOM	2417	CB	LYS	B	158	3.239	35.586	-7.371	1.00	39.68	B C
ATOM	2418	CG	LYS	B	158	4.062	34.491	-6.748	1.00	52.28	B C
ATOM	2419	CD	LYS	B	158	5.107	35.135	-5.816	1.00	60.48	B C
ATOM	2420	CE	LYS	B	158	6.294	34.215	-5.502	1.00	65.30	B C
ATOM	2421	NZ	LYS	B	158	7.325	34.190	-6.588	1.00	66.85	B N
ATOM	2422	C	LYS	B	158	1.843	34.907	-9.371	1.00	31.20	B C
ATOM	2423	O	LYS	B	158	2.035	33.754	-9.760	1.00	28.09	B O
ATOM	2424	N	ASN	B	159	1.570	35.918	-10.185	1.00	28.50	B N
ATOM	2425	CA	ASN	B	159	1.522	35.758	-11.627	1.00	31.05	B C
ATOM	2426	CB	ASN	B	159	1.388	37.130	-12.268	1.00	28.85	B C
ATOM	2427	CG	ASN	B	159	0.028	37.741	-12.043	1.00	31.16	B C
ATOM	2428	OD1	ASN	B	159	-0.209	38.903	-12.364	1.00	31.26	B O
ATOM	2429	ND2	ASN	B	159	-0.885	36.950	-11.503	1.00	29.44	B N
ATOM	2430	C	ASN	B	159	2.725	35.016	-12.226	1.00	35.17	B C
ATOM	2431	O	ASN	B	159	2.561	34.210	-13.138	1.00	31.63	B O
ATOM	2432	N	GLU	B	160	3.927	35.282	-11.718	1.00	38.71	B N
ATOM	2433	CA	GLU	B	160	5.125	34.626	-12.249	1.00	44.05	B C
ATOM	2434	CB	GLU	B	160	6.382	34.990	-11.452	1.00	50.15	B C
ATOM	2435	CG	GLU	B	160	6.492	36.424	-10.995	1.00	62.32	B C
ATOM	2436	CD	GLU	B	160	5.738	36.673	-9.704	1.00	68.05	B C
ATOM	2437	OE1	GLU	B	160	4.511	36.922	-9.767	1.00	69.53	B O
ATOM	2438	OE2	GLU	B	160	6.379	36.604	-8.628	1.00	71.54	B O
ATOM	2439	C	GLU	B	160	4.993	33.111	-12.224	1.00	43.36	B C
ATOM	2440	O	GLU	B	160	5.482	32.426	-13.120	1.00	46.42	B O
ATOM	2441	N	ASP	B	161	4.336	32.587	-11.195	1.00	41.11	B N
ATOM	2442	CA	ASP	B	161	4.180	31.147	-11.066	1.00	41.01	B C
ATOM	2443	CB	ASP	B	161	4.142	30.747	-9.593	1.00	45.46	B C
ATOM	2444	CG	ASP	B	161	5.187	31.458	-8.770	1.00	48.82	B C
ATOM	2445	OD1	ASP	B	161	6.306	31.684	-9.280	1.00	52.61	B O
ATOM	2446	OD2	ASP	B	161	4.888	31.778	-7.602	1.00	50.38	B O
ATOM	2447	C	ASP	B	161	2.949	30.568	-11.738	1.00	41.15	B C
ATOM	2448	O	ASP	B	161	2.684	29.378	-11.606	1.00	41.20	B O
ATOM	2449	N	LEU	B	162	2.195	31.375	-12.467	1.00	39.52	B N
ATOM	2450	CA	LEU	B	162	0.987	30.844	-13.080	1.00	40.47	B C
ATOM	2451	CB	LEU	B	162	-0.238	31.509	-12.451	1.00	34.86	B C
ATOM	2452	CG	LEU	B	162	-0.417	31.464	-10.930	1.00	35.52	B C
ATOM	2453	CD1	LEU	B	162	-1.543	32.421	-10.544	1.00	33.51	B C
ATOM	2454	CD2	LEU	B	162	-0.733	30.056	-10.460	1.00	30.52	B C
ATOM	2455	C	LEU	B	162	0.933	31.018	-14.590	1.00	43.29	B C
ATOM	2456	O	LEU	B	162	-0.150	31.057	-15.173	1.00	37.22	B O
ATOM	2457	N	SER	B	163	2.095	31.099	-15.227	1.00	50.15	B N
ATOM	2458	CA	SER	B	163	2.143	31.298	-16.672	1.00	59.17	B C
ATOM	2459	CB	SER	B	163	3.427	32.046	-17.049	1.00	61.83	B C
ATOM	2460	OG	SER	B	163	3.370	33.401	-16.636	1.00	68.53	B O
ATOM	2461	C	SER	B	163	2.028	30.052	-17.545	1.00	62.34	B C
ATOM	2462	O	SER	B	163	1.673	28.966	-17.080	1.00	56.90	B O
ATOM	2463	N	LEU	B	164	2.330	30.266	-18.827	1.00	72.16	B N
ATOM	2464	CA	LEU	B	164	2.343	29.263	-19.901	1.00	79.50	B C
ATOM	2465	CB	LEU	B	164	3.124	28.001	-19.474	1.00	81.73	B C
ATOM	2466	CG	LEU	B	164	4.075	27.295	-20.474	1.00	83.37	B C
ATOM	2467	CD1	LEU	B	164	3.310	26.674	-21.640	1.00	80.54	B C
ATOM	2468	CD2	LEU	B	164	5.107	28.296	-20.989	1.00	84.39	B C
ATOM	2469	C	LEU	B	164	0.977	28.865	-20.440	1.00	81.50	B C
ATOM	2470	O	LEU	B	164	-0.062	29.140	-19.825	1.00	80.63	B O

Table 8

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ATOM   2471  N   ALA B 165      1.026  28.224 -21.610  1.00 85.43      B     N
ATOM   2472  CA  ALA B 165     -0.125  27.723 -22.365  1.00 89.31      B     C
ATOM   2473  CB  ALA B 165     -1.366  28.574 -22.089  1.00 92.41      B     C
ATOM   2474  C   ALA B 165      0.223  27.771 -23.856  1.00 89.33      B     C
ATOM   2475  O   ALA B 165      1.000  28.627 -24.283  1.00 89.73      B     O
ATOM   2476  N   ALA B 166     -0.349  26.856 -24.637  1.00 89.07      B     N
ATOM   2477  CA  ALA B 166     -0.108  26.787 -26.080  1.00 87.83      B     C
ATOM   2478  CB  ALA B 166     -1.352  26.265 -26.788  1.00 85.91      B     C
ATOM   2479  C   ALA B 166      0.299  28.134 -26.676  1.00 88.21      B     C
ATOM   2480  O   ALA B 166      1.358  28.184 -27.332  1.00 89.99      B     O
ATOM   2481  OXT ALA B 166     -0.442  29.124 -26.485  1.00 88.11      B     O
TER    2482       ALA B 166                                             B
ATOM   2483  CB  MET D   1    -21.412  46.978  -4.342  1.00 29.72      D     C
ATOM   2484  CG  MET D   1    -21.290  45.827  -3.348  1.00 37.86      D     C
ATOM   2485  SD  MET D   1    -22.874  45.381  -2.550  1.00 39.32      D     S
ATOM   2486  CE  MET D   1    -23.300  46.943  -1.833  1.00 45.67      D     C
ATOM   2487  C   MET D   1    -19.116  47.962  -3.934  1.00 31.36      D     C
ATOM   2488  O   MET D   1    -17.921  47.557  -3.912  1.00 27.32      D     O
ATOM   2489  OXT MET D   1    -19.561  48.804  -3.124  1.00 25.50      D     O
ATOM   2490  N   MET D   1    -19.530  46.310  -5.836  1.00 18.66      D     N
ATOM   2491  CA  MET D   1    -20.093  47.423  -5.007  1.00 29.60      D     C
TER    2492       MET D   1                                             D
ATOM   2493  CB  MET E   1    -13.445  39.902 -15.764  1.00 32.98      E     C
ATOM   2494  CG  MET E   1    -12.859  39.274 -16.982  1.00 36.85      E     C
ATOM   2495  SD  MET E   1    -13.992  38.014 -17.543  1.00 42.72      E     S
ATOM   2496  CE  MET E   1    -13.593  36.682 -16.483  1.00 39.24      E     C
ATOM   2497  C   MET E   1    -12.161  42.059 -16.026  1.00 30.59      E     C
ATOM   2498  O   MET E   1    -12.679  43.181 -15.857  1.00 25.48      E     O
ATOM   2499  OXT MET E   1    -11.330  41.824 -16.937  1.00 34.11      E     O
ATOM   2500  N   MET E   1    -13.329  41.494 -13.904  1.00 25.83      E     N
ATOM   2501  CA  MET E   1    -12.563  40.932 -15.060  1.00 30.41      E     C
TER    2502       MET E   1                                             E
ATOM   2503  O   HOH W   1    -27.957  28.421  -1.661  1.00 22.62      W     O
ATOM   2504  O   HOH W   2    -17.884  61.661 -22.504  1.00 15.78      W     O
ATOM   2505  O   HOH W   3      1.423  46.731   2.098  1.00 15.70      W     O
ATOM   2506  O   HOH W   4    -22.506  32.995 -12.109  1.00 17.84      W     O
ATOM   2507  O   HOH W   5    -34.139  41.200  -9.393  1.00 21.15      W     O
ATOM   2508  O   HOH W   6    -15.640  26.130  -9.984  1.00 16.37      W     O
ATOM   2509  O   HOH W   7    -25.877  58.865 -13.895  1.00 19.00      W     O
ATOM   2510  O   HOH W   8    -13.932  52.869  -0.552  1.00 20.13      W     O
ATOM   2511  O   HOH W   9     -1.069  52.293  -0.684  1.00 29.60      W     O
ATOM   2512  O   HOH W  10    -33.173  35.155   1.538  1.00 17.85      W     O
ATOM   2513  O   HOH W  11    -29.041  51.933 -11.572  1.00 22.91      W     O
ATOM   2514  O   HOH W  12    -30.894  35.445 -17.804  1.00 23.83      W     O
ATOM   2515  O   HOH W  13    -25.742  35.861  -7.367  1.00 18.55      W     O
ATOM   2516  O   HOH W  14    -28.004  29.961  -4.366  1.00 19.02      W     O
ATOM   2517  O   HOH W  15     -8.441  47.928 -19.539  1.00 20.94      W     O
ATOM   2518  O   HOH W  16    -15.824  47.270 -11.077  1.00 22.23      W     O
ATOM   2519  O   HOH W  17    -12.477  56.335 -25.783  1.00 37.51      W     O
ATOM   2520  O   HOH W  18      0.072  38.299  -6.247  1.00 22.19      W     O
ATOM   2521  O   HOH W  19    -20.731  44.845   6.124  1.00 21.97      W     O
ATOM   2522  O   HOH W  20    -19.753  41.356  12.666  1.00 28.24      W     O
ATOM   2523  O   HOH W  21     -5.840  33.475  -8.203  1.00 26.56      W     O
ATOM   2524  O   HOH W  22     -3.653  39.104 -14.170  1.00 26.78      W     O
ATOM   2525  O   HOH W  23    -27.805  29.571 -14.848  1.00 22.24      W     O
ATOM   2526  O   HOH W  24     -6.446  39.518  10.370  1.00 27.93      W     O
ATOM   2527  O   HOH W  25    -35.567  39.308  -5.429  1.00 30.94      W     O
```

Table 8

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ATOM   2528  O   HOH W  26     -21.547  28.315  -1.236  1.00 24.59      W    O
ATOM   2529  O   HOH W  27     -11.843  60.568 -19.705  1.00 19.30      W    O
ATOM   2530  O   HOH W  28     -18.950  54.928 -26.786  1.00 22.85      W    O
ATOM   2531  O   HOH W  29     -10.079  43.309 -13.434  1.00 33.19      W    O
ATOM   2532  O   HOH W  30     -26.197  27.790 -12.253  1.00 35.14      W    O
ATOM   2533  O   HOH W  31     -15.767  52.854  -3.752  1.00 28.06      W    O
ATOM   2534  O   HOH W  32     -38.888  44.977   0.683  1.00 26.92      W    O
ATOM   2535  O   HOH W  33     -23.478  52.248 -30.233  1.00 20.41      W    O
ATOM   2536  O   HOH W  34     -31.554  33.502 -12.292  1.00 28.22      W    O
ATOM   2537  O   HOH W  35     -25.946  59.463 -10.943  1.00 33.59      W    O
ATOM   2538  O   HOH W  36     -15.002  39.314 -12.879  1.00 26.75      W    O
ATOM   2539  O   HOH W  37     -21.095  44.464  -6.856  1.00 23.80      W    O
ATOM   2540  O   HOH W  38     -25.273  42.846  -5.472  1.00 29.66      W    O
ATOM   2541  O   HOH W  39     -27.550  47.601  -6.545  1.00 29.80      W    O
ATOM   2542  O   HOH W  40     -18.803  39.496 -32.178  1.00 32.03      W    O
ATOM   2543  O   HOH W  41     -36.912  47.256  -6.319  1.00 28.39      W    O
ATOM   2544  O   HOH W  42     -13.358  45.345  -8.863  1.00 26.49      W    O
ATOM   2545  O   HOH W  43       0.302  30.617  -0.495  1.00 37.57      W    O
ATOM   2546  O   HOH W  44     -13.370  27.774  10.600  1.00 32.37      W    O
ATOM   2547  O   HOH W  45     -18.803  52.741 -28.766  1.00 35.46      W    O
ATOM   2548  O   HOH W  46     -15.079  39.752 -25.956  1.00 24.92      W    O
ATOM   2549  O   HOH W  47      -8.928  24.676 -13.321  1.00 33.07      W    O
ATOM   2550  O   HOH W  48     -23.384  26.851  -7.102  1.00 34.50      W    O
ATOM   2551  O   HOH W  49     -22.016  38.926  16.829  1.00 36.64      W    O
ATOM   2552  O   HOH W  50     -35.694  39.110  -8.627  1.00 39.72      W    O
ATOM   2553  O   HOH W  51     -23.883  55.682  -5.840  1.00 32.45      W    O
ATOM   2554  O   HOH W  52      -4.741  44.385   6.697  1.00 36.16      W    O
ATOM   2555  O   HOH W  53     -10.797  22.229 -20.072  1.00 35.39      W    O
ATOM   2556  O   HOH W  54     -23.281  37.469 -10.223  1.00 33.77      W    O
ATOM   2557  O   HOH W  55     -16.630  52.089 -30.254  1.00 43.39      W    O
ATOM   2558  O   HOH W  56      -7.827  46.378 -16.916  1.00 42.56      W    O
ATOM   2559  O   HOH W  57     -25.733  28.240 -24.899  1.00 47.26      W
TER    2560      HOH W  57
ATOM   2561 ZN   ZN  C 201     -28.233  43.350  -3.235  1.00 78.57      C    N
ATOM   2562 ZN   ZN  C 202     -14.679  32.220 -16.385  1.00 87.07      C
TER    2563      ZN  C 202
END
```

Table 9

```
REMARK coordinates from restrained individual B-factor refinement
REMARK refinement resolution: 30.0 - 1.8 A
REMARK starting r= 0.1882 free_r= 0.2330
REMARK final    r= 0.1881 free_r= 0.2321
REMARK B rmsd for bonded mainchain atoms=  2.046  target= 2.0
REMARK B rmsd for bonded sidechain atoms=  4.456  target= 2.5
REMARK B rmsd for angle mainchain atoms=  2.703  target= 2.5
REMARK B rmsd for angle sidechain atoms=  6.039  target= 3.0
REMARK wa= 1.60323
REMARK rweight=0.1
REMARK target= mlf  steps= 15
REMARK sg= P2(1) a= 43.78 b= 82.26 c= 49.52 alpha= 90 beta= 102.79 gamma= 90
REMARK parameter file 1  : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2  : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3  : ion.param
REMARK parameter file 4  : mse.par
REMARK molecular structure file: 80b1c1_3.psf
REMARK input coordinates: 80b1c1_3bmin.pdb
REMARK reflection file= 80b1c1_semet_high_p21.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.8
REMARK initial B-factor correction applied to fobs :
REMARK   B11=  -1.197 B22=  -1.072 B33=   2.269
REMARK   B12=   0.000 B13=  -1.691 B23=   0.000
REMARK B-factor correction applied to coordinate array B:   -0.015
REMARK bulk solvent: (Mask) density level= 0.380244 e/A^3, B-factor= 46.1895 A^2
REMARK reflections with |Fobs|/sigma_F < 2.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range:     31732 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0):   5182 (  16.3 % )
REMARK number of reflections rejected:                         1096 (   3.5 % )
REMARK total number of reflections used:                      25454 (  80.2 % )
REMARK number of reflections in working set:                  22915 (  72.2 % )
REMARK number of reflections in test set:                      2539 (   8.0 % )
REMARK FILENAME="80b1c1_3bbind.pdb"
REMARK DATE:Nov-07-2000  06:29:54       created by user: hlewis
REMARK Written by CNX VERSION:2000
ATOM      1  CB  ASN A   6     -11.109 -34.756   7.282  1.00 39.97      A    C
ATOM      2  CG  ASN A   6     -11.244 -34.395   8.749  1.00 45.41      A    C
ATOM      3  OD1 ASN A   6     -11.359 -33.223   9.101  1.00 46.74      A    O
ATOM      4  ND2 ASN A   6     -11.214 -35.410   9.621  1.00 51.73      A    N
ATOM      5  C   ASN A   6     -12.486 -32.912   6.125  1.00 32.73      A    C
ATOM      6  O   ASN A   6     -13.616 -32.361   6.130  1.00 28.13      A    O
ATOM      7  N   ASN A   6     -12.273 -35.159   5.166  1.00 42.01      A    N
ATOM      8  CA  ASN A   6     -12.362 -34.420   6.464  1.00 36.80      A    C
ATOM      9  N   VAL A   7     -11.365 -32.243   5.823  1.00 27.26      A    N
ATOM     10  CA  VAL A   7     -11.453 -30.817   5.447  1.00 26.11      A    C
ATOM     11  CB  VAL A   7     -10.419 -29.958   6.245  1.00 25.04      A    C
ATOM     12  CG1 VAL A   7     -10.501 -28.485   5.824  1.00 23.93      A    C
ATOM     13  CG2 VAL A   7     -10.712 -30.085   7.756  1.00 19.63      A    C
ATOM     14  C   VAL A   7     -11.241 -30.705   3.924  1.00 24.91      A    C
ATOM     15  O   VAL A   7     -10.111 -30.693   3.443  1.00 21.71      A    O
ATOM     16  N   GLU A   8     -12.344 -30.641   3.173  1.00 22.25      A    N
ATOM     17  CA  GLU A   8     -12.278 -30.572   1.724  1.00 25.07      A    C
ATOM     18  CB  GLU A   8     -13.665 -30.489   1.074  1.00 26.53      A    C
ATOM     19  CG  GLU A   8     -14.750 -31.413   1.544  1.00 34.72      A    C
ATOM     20  CD  GLU A   8     -16.112 -30.929   0.997  1.00 43.56      A    C
```

Table 9

ATOM	21	OE1	GLU	A	8	-17.155	-31.132	1.667	1.00	49.93	A	O
ATOM	22	OE2	GLU	A	8	-16.128	-30.327	-0.112	1.00	50.47	A	O
ATOM	23	C	GLU	A	8	-11.450	-29.401	1.161	1.00	24.95	A	C
ATOM	24	O	GLU	A	8	-10.927	-29.518	0.060	1.00	22.48	A	O
ATOM	25	N	SER	A	9	-11.337	-28.278	1.866	1.00	26.73	A	N
ATOM	26	CA	SER	A	9	-10.535	-27.165	1.309	1.00	29.58	A	C
ATOM	27	CB	SER	A	9	-10.527	-25.973	2.285	1.00	34.95	A	C
ATOM	28	OG	SER	A	9	-11.865	-25.590	2.583	1.00	41.92	A	O
ATOM	29	C	SER	A	9	-9.083	-27.557	0.953	1.00	28.49	A	C
ATOM	30	O	SER	A	9	-8.505	-27.072	-0.038	1.00	28.35	A	O
ATOM	31	N	PHE	A	10	-8.499	-28.445	1.758	1.00	25.18	A	N
ATOM	32	CA	PHE	A	10	-7.127	-28.904	1.552	1.00	22.93	A	C
ATOM	33	CB	PHE	A	10	-6.633	-29.654	2.802	1.00	18.95	A	C
ATOM	34	CG	PHE	A	10	-6.693	-28.834	4.078	1.00	17.48	A	C
ATOM	35	CD1	PHE	A	10	-6.742	-29.463	5.311	1.00	18.70	A	C
ATOM	36	CD2	PHE	A	10	-6.737	-27.442	4.050	1.00	17.13	A	C
ATOM	37	CE1	PHE	A	10	-6.844	-28.727	6.487	1.00	20.70	A	C
ATOM	38	CE2	PHE	A	10	-6.842	-26.706	5.245	1.00	19.55	A	C
ATOM	39	CZ	PHE	A	10	-6.899	-27.360	6.447	1.00	22.25	A	C
ATOM	40	C	PHE	A	10	-6.976	-29.823	0.337	1.00	22.93	A	C
ATOM	41	O	PHE	A	10	-5.860	-30.171	-0.044	1.00	23.69	A	O
ATOM	42	N	ASP	A	11	-8.090	-30.215	-0.278	1.00	23.09	A	N
ATOM	43	CA	ASP	A	11	-8.002	-31.104	-1.442	1.00	22.35	A	C
ATOM	44	CB	ASP	A	11	-9.213	-32.051	-1.442	1.00	26.24	A	C
ATOM	45	CG	ASP	A	11	-9.196	-33.020	-0.250	1.00	30.63	A	C
ATOM	46	OD1	ASP	A	11	-10.277	-33.534	0.123	1.00	33.50	A	O
ATOM	47	OD2	ASP	A	11	-8.102	-33.267	0.313	1.00	29.60	A	O
ATOM	48	C	ASP	A	11	-7.852	-30.387	-2.808	1.00	22.89	A	C
ATOM	49	O	ASP	A	11	-7.524	-31.029	-3.831	1.00	20.44	A	O
ATOM	50	N	LEU	A	12	-8.074	-29.070	-2.823	1.00	18.23	A	N
ATOM	51	CA	LEU	A	12	-7.913	-28.277	-4.066	1.00	17.58	A	C
ATOM	52	CB	LEU	A	12	-8.558	-26.905	-3.906	1.00	14.74	A	C
ATOM	53	CG	LEU	A	12	-8.307	-25.959	-5.101	1.00	15.77	A	C
ATOM	54	CD1	LEU	A	12	-9.174	-26.399	-6.308	1.00	15.12	A	C
ATOM	55	CD2	LEU	A	12	-8.727	-24.493	-4.685	1.00	15.12	A	C
ATOM	56	C	LEU	A	12	-6.413	-28.054	-4.274	1.00	18.35	A	C
ATOM	57	O	LEU	A	12	-5.731	-27.718	-3.318	1.00	15.25	A	O
ATOM	58	N	ASP	A	13	-5.900	-28.251	-5.494	1.00	18.44	A	N
ATOM	59	CA	ASP	A	13	-4.488	-28.021	-5.797	1.00	21.96	A	C
ATOM	60	CB	ASP	A	13	-4.050	-28.798	-7.047	1.00	25.10	A	C
ATOM	61	CG	ASP	A	13	-2.557	-28.649	-7.336	1.00	29.46	A	C
ATOM	62	OD1	ASP	A	13	-1.963	-27.598	-7.012	1.00	27.52	A	O
ATOM	63	OD2	ASP	A	13	-1.973	-29.598	-7.894	1.00	31.47	A	O
ATOM	64	C	ASP	A	13	-4.374	-26.522	-6.099	1.00	20.36	A	C
ATOM	65	O	ASP	A	13	-4.664	-26.089	-7.227	1.00	18.11	A	O
ATOM	66	N	HIS	A	14	-3.952	-25.747	-5.103	1.00	15.23	A	N
ATOM	67	CA	HIS	A	14	-3.851	-24.288	-5.221	1.00	15.84	A	C
ATOM	68	CB	HIS	A	14	-3.568	-23.682	-3.853	1.00	14.85	A	C
ATOM	69	CG	HIS	A	14	-4.695	-23.831	-2.890	1.00	11.45	A	C
ATOM	70	CD2	HIS	A	14	-5.288	-24.930	-2.358	1.00	8.11	A	C
ATOM	71	ND1	HIS	A	14	-5.323	-22.738	-2.325	1.00	14.66	A	N
ATOM	72	CE1	HIS	A	14	-6.251	-23.162	-1.483	1.00	14.61	A	C
ATOM	73	NE2	HIS	A	14	-6.254	-24.486	-1.488	1.00	16.99	A	N
ATOM	74	C	HIS	A	14	-2.802	-23.811	-6.199	1.00	15.90	A	C
ATOM	75	O	HIS	A	14	-2.785	-22.624	-6.571	1.00	16.40	A	O
ATOM	76	N	THR	A	15	-1.907	-24.702	-6.624	1.00	17.18	A	N
ATOM	77	CA	THR	A	15	-0.915	-24.225	-7.587	1.00	17.85	A	C

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ATOM	78	CB	THR	A	15	0.392	-25.093	-7.592	1.00	20.06	A	C
ATOM	79	OG1	THR	A	15	0.082	-26.424	-8.036	1.00	17.47	A	O
ATOM	80	CG2	THR	A	15	0.987	-25.186	-6.139	1.00	22.35	A	C
ATOM	81	C	THR	A	15	-1.484	-24.245	-9.022	1.00	20.16	A	C
ATOM	82	O	THR	A	15	-0.918	-23.600	-9.906	1.00	19.07	A	O
ATOM	83	N	LYS	A	16	-2.580	-24.970	-9.246	1.00	19.25	A	N
ATOM	84	CA	LYS	A	16	-3.134	-25.087	-10.585	1.00	17.43	A	C
ATOM	85	CB	LYS	A	16	-3.437	-26.547	-10.861	1.00	22.92	A	C
ATOM	86	CG	LYS	A	16	-2.100	-27.268	-11.104	1.00	28.84	A	C
ATOM	87	CD	LYS	A	16	-2.228	-28.732	-11.441	1.00	40.18	A	C
ATOM	88	CE	LYS	A	16	-0.859	-29.389	-11.308	1.00	45.17	A	C
ATOM	89	NZ	LYS	A	16	0.271	-28.440	-11.650	1.00	46.95	A	N
ATOM	90	C	LYS	A	16	-4.303	-24.204	-10.987	1.00	18.24	A	C
ATOM	91	O	LYS	A	16	-4.656	-24.152	-12.180	1.00	14.30	A	O
ATOM	92	N	VAL	A	17	-4.889	-23.502	-10.013	1.00	14.32	A	N
ATOM	93	CA	VAL	A	17	-6.000	-22.610	-10.331	1.00	12.06	A	C
ATOM	94	CB	VAL	A	17	-6.886	-22.330	-9.090	1.00	14.07	A	C
ATOM	95	CG1	VAL	A	17	-7.483	-23.691	-8.580	1.00	13.95	A	C
ATOM	96	CG2	VAL	A	17	-6.074	-21.616	-7.958	1.00	9.43	A	C
ATOM	97	C	VAL	A	17	-5.438	-21.335	-10.934	1.00	12.09	A	C
ATOM	98	O	VAL	A	17	-4.250	-21.054	-10.812	1.00	12.51	A	O
ATOM	99	N	LYS	A	18	-6.303	-20.556	-11.577	1.00	10.70	A	N
ATOM	100	CA	LYS	A	18	-5.887	-19.293	-12.244	1.00	11.90	A	C
ATOM	101	CB	LYS	A	18	-5.963	-19.479	-13.740	1.00	12.73	A	C
ATOM	102	CG	LYS	A	18	-5.151	-20.671	-14.236	1.00	18.46	A	C
ATOM	103	CD	LYS	A	18	-3.670	-20.416	-14.161	1.00	23.47	A	C
ATOM	104	CE	LYS	A	18	-2.968	-21.757	-14.291	1.00	31.36	A	C
ATOM	105	NZ	LYS	A	18	-1.619	-21.585	-14.773	1.00	22.77	A	N
ATOM	106	C	LYS	A	18	-6.843	-18.169	-11.848	1.00	11.48	A	C
ATOM	107	O	LYS	A	18	-7.927	-18.016	-12.424	1.00	11.28	A	O
ATOM	108	N	ALA	A	19	-6.447	-17.390	-10.853	1.00	10.48	A	N
ATOM	109	CA	ALA	A	19	-7.295	-16.317	-10.348	1.00	10.40	A	C
ATOM	110	CB	ALA	A	19	-6.787	-15.879	-8.933	1.00	10.04	A	C
ATOM	111	C	ALA	A	19	-7.281	-15.127	-11.297	1.00	12.51	A	C
ATOM	112	O	ALA	A	19	-6.350	-14.950	-12.078	1.00	12.39	A	O
ATOM	113	N	PRO	A	20	-8.343	-14.301	-11.266	1.00	12.72	A	N
ATOM	114	CD	PRO	A	20	-8.352	-13.052	-12.059	1.00	10.91	A	C
ATOM	115	CA	PRO	A	20	-9.513	-14.446	-10.400	1.00	11.31	A	C
ATOM	116	CB	PRO	A	20	-10.050	-13.017	-10.276	1.00	11.88	A	C
ATOM	117	CG	PRO	A	20	-9.706	-12.388	-11.654	1.00	12.61	A	C
ATOM	118	C	PRO	A	20	-10.526	-15.413	-10.998	1.00	11.81	A	C
ATOM	119	O	PRO	A	20	-10.603	-15.560	-12.205	1.00	13.65	A	O
ATOM	120	N	TYR	A	21	-11.341	-16.044	-10.166	1.00	9.95	A	N
ATOM	121	CA	TYR	A	21	-12.327	-16.979	-10.693	1.00	9.24	A	C
ATOM	122	CB	TYR	A	21	-11.628	-18.347	-11.010	1.00	8.37	A	C
ATOM	123	CG	TYR	A	21	-11.060	-19.065	-9.783	1.00	9.75	A	C
ATOM	124	CD1	TYR	A	21	-11.897	-19.643	-8.814	1.00	7.27	A	C
ATOM	125	CE1	TYR	A	21	-11.353	-20.292	-7.688	1.00	14.45	A	C
ATOM	126	CD2	TYR	A	21	-9.697	-19.163	-9.595	1.00	11.04	A	C
ATOM	127	CE2	TYR	A	21	-9.145	-19.835	-8.490	1.00	14.17	A	C
ATOM	128	CZ	TYR	A	21	-9.976	-20.389	-7.552	1.00	12.48	A	C
ATOM	129	OH	TYR	A	21	-9.401	-21.026	-6.484	1.00	12.02	A	O
ATOM	130	C	TYR	A	21	-13.443	-17.237	-9.704	1.00	9.99	A	C
ATOM	131	O	TYR	A	21	-13.474	-16.721	-8.547	1.00	10.34	A	O
ATOM	132	N	VAL	A	22	-14.408	-17.985	-10.191	1.00	9.26	A	N
ATOM	133	CA	VAL	A	22	-15.496	-18.491	-9.368	1.00	12.80	A	C
ATOM	134	CB	VAL	A	22	-16.874	-18.021	-9.897	1.00	15.58	A	C

Table 9

ATOM	135	CG1	VAL	A	22	-18.001	-18.914	-9.369	1.00	18.56	A	C
ATOM	136	CG2	VAL	A	22	-17.103	-16.615	-9.455	1.00	10.88	A	C
ATOM	137	C	VAL	A	22	-15.359	-20.023	-9.496	1.00	10.47	A	C
ATOM	138	O	VAL	A	22	-15.156	-20.588	-10.598	1.00	10.29	A	O
ATOM	139	N	ARG	A	23	-15.478	-20.727	-8.375	1.00	9.47	A	N
ATOM	140	CA	ARG	A	23	-15.363	-22.204	-8.449	1.00	10.18	A	C
ATOM	141	CB	ARG	A	23	-13.917	-22.628	-8.085	1.00	11.97	A	C
ATOM	142	CG	ARG	A	23	-13.614	-24.174	-8.101	1.00	13.19	A	C
ATOM	143	CD	ARG	A	23	-12.175	-24.372	-7.503	1.00	14.98	A	C
ATOM	144	NE	ARG	A	23	-12.101	-24.058	-6.071	1.00	13.59	A	N
ATOM	145	CZ	ARG	A	23	-12.398	-24.932	-5.109	1.00	16.04	A	C
ATOM	146	NH1	ARG	A	23	-12.781	-26.187	-5.440	1.00	13.84	A	N
ATOM	147	NH2	ARG	A	23	-12.339	-24.566	-3.824	1.00	15.66	A	N
ATOM	148	C	ARG	A	23	-16.331	-22.869	-7.471	1.00	11.73	A	C
ATOM	149	O	ARG	A	23	-16.428	-22.429	-6.326	1.00	12.93	A	O
ATOM	150	N	LEU	A	24	-17.082	-23.887	-7.925	1.00	11.92	A	N
ATOM	151	CA	LEU	A	24	-17.980	-24.650	-7.031	1.00	13.98	A	C
ATOM	152	CB	LEU	A	24	-18.823	-25.647	-7.839	1.00	16.62	A	C
ATOM	153	CG	LEU	A	24	-19.721	-26.544	-6.927	1.00	15.51	A	C
ATOM	154	CD1	LEU	A	24	-20.878	-25.685	-6.311	1.00	11.97	A	C
ATOM	155	CD2	LEU	A	24	-20.274	-27.725	-7.769	1.00	16.95	A	C
ATOM	156	C	LEU	A	24	-17.019	-25.426	-6.102	1.00	11.73	A	C
ATOM	157	O	LEU	A	24	-16.214	-26.257	-6.560	1.00	12.93	A	O
ATOM	158	N	ALA	A	25	-17.046	-25.143	-4.822	1.00	9.74	A	N
ATOM	159	CA	ALA	A	25	-16.112	-25.825	-3.926	1.00	13.95	A	C
ATOM	160	CB	ALA	A	25	-15.639	-24.853	-2.808	1.00	12.22	A	C
ATOM	161	C	ALA	A	25	-16.752	-27.075	-3.308	1.00	16.73	A	C
ATOM	162	O	ALA	A	25	-16.064	-28.055	-2.999	1.00	18.16	A	O
ATOM	163	N	GLY	A	26	-18.055	-27.044	-3.118	1.00	14.96	A	N
ATOM	164	CA	GLY	A	26	-18.716	-28.226	-2.563	1.00	19.03	A	C
ATOM	165	C	GLY	A	26	-20.224	-28.168	-2.622	1.00	19.96	A	C
ATOM	166	O	GLY	A	26	-20.798	-27.079	-2.823	1.00	17.00	A	O
ATOM	167	N	VAL	A	27	-20.899	-29.315	-2.507	1.00	17.44	A	N
ATOM	168	CA	VAL	A	27	-22.350	-29.285	-2.491	1.00	19.02	A	C
ATOM	169	CB	VAL	A	27	-23.016	-29.767	-3.791	1.00	21.60	A	C
ATOM	170	CG1	VAL	A	27	-24.467	-29.378	-3.748	1.00	22.88	A	C
ATOM	171	CG2	VAL	A	27	-22.321	-29.202	-4.988	1.00	22.78	A	C
ATOM	172	C	VAL	A	27	-22.825	-30.243	-1.424	1.00	18.44	A	C
ATOM	173	O	VAL	A	27	-22.357	-31.386	-1.395	1.00	20.93	A	O
ATOM	174	N	LYS	A	28	-23.713	-29.794	-0.543	1.00	15.09	A	N
ATOM	175	CA	LYS	A	28	-24.266	-30.675	0.527	1.00	16.04	A	C
ATOM	176	CB	LYS	A	28	-23.907	-30.165	1.933	1.00	17.35	A	C
ATOM	177	CG	LYS	A	28	-22.435	-30.425	2.296	1.00	28.45	A	C
ATOM	178	CD	LYS	A	28	-22.210	-30.253	3.790	1.00	35.18	A	C
ATOM	179	CE	LYS	A	28	-20.859	-30.808	4.220	1.00	38.66	A	C
ATOM	180	NZ	LYS	A	28	-20.809	-32.299	4.141	1.00	37.72	A	N
ATOM	181	C	LYS	A	28	-25.760	-30.665	0.394	1.00	15.76	A	C
ATOM	182	O	LYS	A	28	-26.313	-29.715	-0.157	1.00	16.01	A	O
ATOM	183	N	THR	A	29	-26.433	-31.706	0.884	1.00	13.59	A	N
ATOM	184	CA	THR	A	29	-27.896	-31.737	0.803	1.00	12.71	A	C
ATOM	185	CB	THR	A	29	-28.488	-32.994	0.026	1.00	14.73	A	C
ATOM	186	OG1	THR	A	29	-27.778	-34.158	0.438	1.00	18.39	A	O
ATOM	187	CG2	THR	A	29	-28.362	-32.830	-1.488	1.00	21.42	A	C
ATOM	188	C	THR	A	29	-28.405	-31.866	2.218	1.00	13.90	A	C
ATOM	189	O	THR	A	29	-27.750	-32.483	3.081	1.00	12.15	A	O
ATOM	190	N	THR	A	30	-29.577	-31.277	2.458	1.00	13.19	A	N
ATOM	191	CA	THR	A	30	-30.240	-31.323	3.765	1.00	12.41	A	C

Table 9

ATOM	192	CB	THR	A	30	-31.274	-30.199	3.824	1.00	16.20	A	C
ATOM	193	OG1	THR	A	30	-32.291	-30.442	2.842	1.00	13.11	A	O
ATOM	194	CG2	THR	A	30	-30.632	-28.901	3.522	1.00	15.00	A	C
ATOM	195	C	THR	A	30	-30.947	-32.672	3.775	1.00	13.39	A	C
ATOM	196	O	THR	A	30	-31.028	-33.314	2.723	1.00	12.93	A	O
ATOM	197	N	PRO	A	31	-31.456	-33.122	4.932	1.00	13.97	A	N
ATOM	198	CD	PRO	A	31	-31.297	-32.528	6.274	1.00	15.89	A	C
ATOM	199	CA	PRO	A	31	-32.152	-34.426	5.009	1.00	15.54	A	C
ATOM	200	CB	PRO	A	31	-32.719	-34.459	6.436	1.00	15.10	A	C
ATOM	201	CG	PRO	A	31	-31.560	-33.735	7.225	1.00	17.38	A	C
ATOM	202	C	PRO	A	31	-33.258	-34.568	3.990	1.00	16.65	A	C
ATOM	203	O	PRO	A	31	-33.441	-35.658	3.455	1.00	19.66	A	O
ATOM	204	N	LYS	A	32	-34.000	-33.483	3.738	1.00	14.09	A	N
ATOM	205	CA	LYS	A	32	-35.093	-33.563	2.766	1.00	18.54	A	C
ATOM	206	CB	LYS	A	32	-36.169	-32.538	3.078	1.00	20.51	A	C
ATOM	207	CG	LYS	A	32	-36.770	-32.723	4.447	1.00	27.72	A	C
ATOM	208	CD	LYS	A	32	-38.210	-32.214	4.458	1.00	34.41	A	C
ATOM	209	CE	LYS	A	32	-38.783	-32.188	5.868	1.00	36.09	A	C
ATOM	210	NZ	LYS	A	32	-38.250	-31.002	6.574	1.00	43.34	A	N
ATOM	211	C	LYS	A	32	-34.663	-33.464	1.310	1.00	18.01	A	C
ATOM	212	O	LYS	A	32	-35.442	-33.715	0.369	1.00	18.66	A	O
ATOM	213	N	GLY	A	33	-33.410	-33.132	1.102	1.00	15.18	A	N
ATOM	214	CA	GLY	A	33	-32.945	-33.115	-0.266	1.00	16.86	A	C
ATOM	215	C	GLY	A	33	-32.616	-31.762	-0.834	1.00	14.61	A	C
ATOM	216	O	GLY	A	33	-32.352	-31.662	-2.047	1.00	15.58	A	O
ATOM	217	N	ASP	A	34	-32.614	-30.704	-0.029	1.00	14.14	A	N
ATOM	218	CA	ASP	A	34	-32.252	-29.417	-0.676	1.00	16.69	A	C
ATOM	219	CB	ASP	A	34	-32.814	-28.217	0.078	1.00	21.63	A	C
ATOM	220	CG	ASP	A	34	-34.282	-28.044	-0.155	1.00	32.28	A	C
ATOM	221	OD1	ASP	A	34	-34.704	-28.042	-1.341	1.00	37.35	A	O
ATOM	222	OD2	ASP	A	34	-35.011	-27.920	0.845	1.00	34.96	A	O
ATOM	223	C	ASP	A	34	-30.742	-29.274	-0.793	1.00	13.34	A	C
ATOM	224	O	ASP	A	34	-30.010	-29.602	0.135	1.00	16.30	A	O
ATOM	225	N	GLN	A	35	-30.283	-28.754	-1.924	1.00	11.00	A	N
ATOM	226	CA	GLN	A	35	-28.865	-28.583	-2.146	1.00	12.76	A	C
ATOM	227	CB	GLN	A	35	-28.568	-28.656	-3.628	1.00	14.97	A	C
ATOM	228	CG	GLN	A	35	-28.789	-30.020	-4.206	1.00	20.55	A	C
ATOM	229	CD	GLN	A	35	-28.491	-29.991	-5.675	1.00	28.41	A	C
ATOM	230	OE1	GLN	A	35	-29.312	-29.565	-6.480	1.00	34.27	A	O
ATOM	231	NE2	GLN	A	35	-27.299	-30.402	-6.033	1.00	26.50	A	N
ATOM	232	C	GLN	A	35	-28.347	-27.227	-1.647	1.00	14.87	A	C
ATOM	233	O	GLN	A	35	-29.013	-26.181	-1.862	1.00	12.47	A	O
ATOM	234	N	ILE	A	36	-27.186	-27.280	-0.990	1.00	13.26	A	N
ATOM	235	CA	ILE	A	36	-26.463	-26.112	-0.476	1.00	14.75	A	C
ATOM	236	CB	ILE	A	36	-26.195	-26.222	1.035	1.00	20.13	A	C
ATOM	237	CG2	ILE	A	36	-25.479	-24.956	1.531	1.00	24.29	A	C
ATOM	238	CG1	ILE	A	36	-27.503	-26.392	1.786	1.00	23.63	A	C
ATOM	239	CD1	ILE	A	36	-27.313	-26.487	3.238	1.00	31.65	A	C
ATOM	240	C	ILE	A	36	-25.118	-26.107	-1.215	1.00	14.22	A	C
ATOM	241	O	ILE	A	36	-24.263	-26.966	-0.987	1.00	13.55	A	O
ATOM	242	N	SER	A	37	-24.948	-25.168	-2.140	1.00	12.40	A	N
ATOM	243	CA	SER	A	37	-23.747	-25.072	-2.927	1.00	13.74	A	C
ATOM	244	CB	SER	A	37	-24.097	-24.645	-4.350	1.00	11.97	A	C
ATOM	245	OG	SER	A	37	-24.906	-25.621	-5.014	1.00	18.36	A	O
ATOM	246	C	SER	A	37	-22.812	-24.033	-2.308	1.00	15.12	A	C
ATOM	247	O	SER	A	37	-23.267	-22.969	-1.920	1.00	15.90	A	O
ATOM	248	N	LYS	A	38	-21.519	-24.339	-2.230	1.00	12.43	A	N

Table 9

ATOM	249	CA	LYS	A	38	-20.588	-23.398	-1.672	1.00	11.31	A	C
ATOM	250	CB	LYS	A	38	-19.818	-24.034	-0.520	1.00	13.25	A	C
ATOM	251	CG	LYS	A	38	-18.890	-23.052	0.177	1.00	19.39	A	C
ATOM	252	CD	LYS	A	38	-18.537	-23.714	1.570	1.00	20.01	A	C
ATOM	253	CE	LYS	A	38	-17.138	-23.555	1.958	1.00	23.22	A	C
ATOM	254	NZ	LYS	A	38	-16.869	-24.351	3.195	1.00	28.02	A	N
ATOM	255	C	LYS	A	38	-19.634	-23.017	-2.796	1.00	12.04	A	C
ATOM	256	O	LYS	A	38	-19.174	-23.888	-3.536	1.00	12.62	A	O
ATOM	257	N	TYR	A	39	-19.302	-21.740	-2.895	1.00	10.31	A	N
ATOM	258	CA	TYR	A	39	-18.460	-21.255	-3.979	1.00	8.89	A	C
ATOM	259	CB	TYR	A	39	-19.228	-20.211	-4.830	1.00	10.19	A	C
ATOM	260	CG	TYR	A	39	-20.390	-20.802	-5.507	1.00	8.69	A	C
ATOM	261	CD1	TYR	A	39	-20.226	-21.448	-6.730	1.00	11.60	A	C
ATOM	262	CE1	TYR	A	39	-21.279	-22.083	-7.350	1.00	12.53	A	C
ATOM	263	CD2	TYR	A	39	-21.635	-20.801	-4.896	1.00	8.99	A	C
ATOM	264	CE2	TYR	A	39	-22.747	-21.455	-5.496	1.00	12.47	A	C
ATOM	265	CZ	TYR	A	39	-22.531	-22.086	-6.736	1.00	14.79	A	C
ATOM	266	OH	TYR	A	39	-23.537	-22.684	-7.401	1.00	14.94	A	O
ATOM	267	C	TYR	A	39	-17.224	-20.556	-3.468	1.00	8.37	A	C
ATOM	268	O	TYR	A	39	-17.292	-19.840	-2.512	1.00	9.33	A	O
ATOM	269	N	ASP	A	40	-16.126	-20.786	-4.164	1.00	11.65	A	N
ATOM	270	CA	ASP	A	40	-14.816	-20.202	-3.888	1.00	12.26	A	C
ATOM	271	CB	ASP	A	40	-13.756	-21.284	-4.251	1.00	15.90	A	C
ATOM	272	CG	ASP	A	40	-12.305	-20.761	-4.319	1.00	20.15	A	C
ATOM	273	OD1	ASP	A	40	-12.082	-19.526	-4.162	1.00	17.19	A	O
ATOM	274	OD2	ASP	A	40	-11.393	-21.617	-4.570	1.00	13.46	A	O
ATOM	275	C	ASP	A	40	-14.789	-18.977	-4.838	1.00	12.60	A	C
ATOM	276	O	ASP	A	40	-14.771	-19.157	-6.072	1.00	12.37	A	O
ATOM	277	N	LEU	A	41	-14.848	-17.755	-4.272	1.00	8.29	A	N
ATOM	278	CA	LEU	A	41	-14.809	-16.534	-5.030	1.00	9.25	A	C
ATOM	279	CB	LEU	A	41	-15.866	-15.521	-4.542	1.00	9.75	A	C
ATOM	280	CG	LEU	A	41	-17.321	-16.046	-4.392	1.00	14.46	A	C
ATOM	281	CD1	LEU	A	41	-18.288	-14.961	-3.835	1.00	15.36	A	C
ATOM	282	CD2	LEU	A	41	-17.819	-16.545	-5.744	1.00	14.64	A	C
ATOM	283	C	LEU	A	41	-13.389	-16.002	-4.812	1.00	9.55	A	C
ATOM	284	O	LEU	A	41	-13.067	-15.325	-3.803	1.00	11.74	A	O
ATOM	285	N	ARG	A	42	-12.543	-16.301	-5.777	1.00	9.51	A	N
ATOM	286	CA	ARG	A	42	-11.119	-15.980	-5.672	1.00	11.15	A	C
ATOM	287	CB	ARG	A	42	-10.314	-17.163	-6.262	1.00	13.81	A	C
ATOM	288	CG	ARG	A	42	-8.803	-17.174	-5.925	1.00	11.05	A	C
ATOM	289	CD	ARG	A	42	-8.567	-17.495	-4.427	1.00	16.23	A	C
ATOM	290	NE	ARG	A	42	-9.110	-18.815	-4.054	1.00	10.48	A	N
ATOM	291	CZ	ARG	A	42	-8.708	-19.548	-3.029	1.00	16.29	A	C
ATOM	292	NH1	ARG	A	42	-7.721	-19.116	-2.234	1.00	10.32	A	N
ATOM	293	NH2	ARG	A	42	-9.302	-20.717	-2.779	1.00	14.90	A	N
ATOM	294	C	ARG	A	42	-10.658	-14.684	-6.327	1.00	10.94	A	C
ATOM	295	O	ARG	A	42	-10.724	-14.590	-7.545	1.00	11.22	A	O
ATOM	296	N	PHE	A	43	-10.210	-13.721	-5.513	1.00	9.50	A	N
ATOM	297	CA	PHE	A	43	-9.674	-12.427	-5.984	1.00	10.49	A	C
ATOM	298	CB	PHE	A	43	-9.696	-11.326	-4.892	1.00	8.68	A	C
ATOM	299	CG	PHE	A	43	-11.061	-10.760	-4.619	1.00	13.17	A	C
ATOM	300	CD1	PHE	A	43	-11.305	-9.398	-4.835	1.00	12.77	A	C
ATOM	301	CD2	PHE	A	43	-12.080	-11.573	-4.161	1.00	13.09	A	C
ATOM	302	CE1	PHE	A	43	-12.565	-8.832	-4.587	1.00	17.18	A	C
ATOM	303	CE2	PHE	A	43	-13.392	-11.005	-3.897	1.00	14.84	A	C
ATOM	304	CZ	PHE	A	43	-13.613	-9.644	-4.113	1.00	15.34	A	C
ATOM	305	C	PHE	A	43	-8.197	-12.519	-6.395	1.00	10.63	A	C

Table 9

ATOM	306	O	PHE	A	43	-7.837	-12.018	-7.454	1.00	11.06	A	O
ATOM	307	N	LEU	A	44	-7.335	-13.125	-5.560	1.00	11.40	A	N
ATOM	308	CA	LEU	A	44	-5.891	-13.161	-5.845	1.00	11.18	A	C
ATOM	309	CB	LEU	A	44	-5.075	-12.558	-4.660	1.00	10.93	A	C
ATOM	310	CG	LEU	A	44	-5.541	-11.169	-4.191	1.00	15.75	A	C
ATOM	311	CD1	LEU	A	44	-4.665	-10.676	-3.002	1.00	15.12	A	C
ATOM	312	CD2	LEU	A	44	-5.435	-10.160	-5.361	1.00	15.24	A	C
ATOM	313	C	LEU	A	44	-5.350	-14.546	-6.068	1.00	10.08	A	C
ATOM	314	O	LEU	A	44	-5.865	-15.502	-5.557	1.00	12.00	A	O
ATOM	315	N	GLN	A	45	-4.326	-14.655	-6.858	1.00	11.64	A	N
ATOM	316	CA	GLN	A	45	-3.719	-15.971	-7.066	1.00	15.49	A	C
ATOM	317	CB	GLN	A	45	-2.601	-15.829	-8.090	1.00	15.46	A	C
ATOM	318	CG	GLN	A	45	-1.960	-17.152	-8.409	1.00	16.98	A	C
ATOM	319	CD	GLN	A	45	-2.897	-18.013	-9.239	1.00	22.32	A	C
ATOM	320	OE1	GLN	A	45	-3.722	-17.489	-10.005	1.00	15.02	A	O
ATOM	321	NE2	GLN	A	45	-2.759	-19.321	-9.122	1.00	18.50	A	N
ATOM	322	C	GLN	A	45	-3.127	-16.533	-5.729	1.00	12.91	A	C
ATOM	323	O	GLN	A	45	-2.391	-15.822	-5.036	1.00	12.57	A	O
ATOM	324	N	PRO	A	46	-3.470	-17.770	-5.352	1.00	11.27	A	N
ATOM	325	CD	PRO	A	46	-4.414	-18.705	-6.016	1.00	13.75	A	C
ATOM	326	CA	PRO	A	46	-2.905	-18.318	-4.089	1.00	12.56	A	C
ATOM	327	CB	PRO	A	46	-3.247	-19.816	-4.144	1.00	10.91	A	C
ATOM	328	CG	PRO	A	46	-4.628	-19.832	-4.961	1.00	9.81	A	C
ATOM	329	C	PRO	A	46	-1.380	-18.139	-3.958	1.00	13.10	A	C
ATOM	330	O	PRO	A	46	-0.625	-18.449	-4.895	1.00	13.99	A	O
ATOM	331	N	ASN	A	47	-0.949	-17.624	-2.806	1.00	10.07	A	N
ATOM	332	CA	ASN	A	47	0.455	-17.437	-2.447	1.00	14.61	A	C
ATOM	333	CB	ASN	A	47	1.119	-18.815	-2.337	1.00	14.65	A	C
ATOM	334	CG	ASN	A	47	0.398	-19.669	-1.294	1.00	14.02	A	C
ATOM	335	OD1	ASN	A	47	0.408	-19.311	-0.124	1.00	17.87	A	O
ATOM	336	ND2	ASN	A	47	-0.293	-20.725	-1.712	1.00	12.40	A	N
ATOM	337	C	ASN	A	47	1.270	-16.415	-3.224	1.00	18.44	A	C
ATOM	338	O	ASN	A	47	2.496	-16.377	-3.127	1.00	18.22	A	O
ATOM	339	N	GLN	A	48	0.567	-15.533	-3.929	1.00	17.61	A	N
ATOM	340	CA	GLN	A	48	1.238	-14.474	-4.699	1.00	21.59	A	C
ATOM	341	CB	GLN	A	48	0.756	-14.466	-6.169	1.00	17.79	A	C
ATOM	342	CG	GLN	A	48	1.094	-15.702	-6.962	1.00	28.51	A	C
ATOM	343	CD	GLN	A	48	2.548	-16.128	-6.826	1.00	37.80	A	C
ATOM	344	OE1	GLN	A	48	3.457	-15.288	-6.798	1.00	43.22	A	O
ATOM	345	NE2	GLN	A	48	2.777	-17.437	-6.750	1.00	39.63	A	N
ATOM	346	C	GLN	A	48	0.947	-13.091	-4.088	1.00	21.62	A	C
ATOM	347	O	GLN	A	48	1.182	-12.067	-4.750	1.00	23.48	A	O
ATOM	348	N	GLY	A	49	0.428	-13.084	-2.855	1.00	20.82	A	N
ATOM	349	CA	GLY	A	49	0.057	-11.853	-2.143	1.00	20.64	A	C
ATOM	350	C	GLY	A	49	-1.330	-12.010	-1.487	1.00	17.52	A	C
ATOM	351	O	GLY	A	49	-2.070	-12.946	-1.801	1.00	18.74	A	O
ATOM	352	N	ALA	A	50	-1.701	-11.143	-0.558	1.00	18.27	A	N
ATOM	353	CA	ALA	A	50	-3.036	-11.299	0.086	1.00	17.75	A	C
ATOM	354	CB	ALA	A	50	-2.912	-12.021	1.446	1.00	22.37	A	C
ATOM	355	C	ALA	A	50	-3.707	-9.962	0.297	1.00	16.23	A	C
ATOM	356	O	ALA	A	50	-3.054	-8.898	0.275	1.00	13.48	A	O
ATOM	357	N	ILE	A	51	-5.024	-9.979	0.472	1.00	14.49	A	N
ATOM	358	CA	ILE	A	51	-5.725	-8.702	0.695	1.00	12.32	A	C
ATOM	359	CB	ILE	A	51	-7.219	-8.896	0.450	1.00	12.68	A	C
ATOM	360	CG2	ILE	A	51	-7.995	-7.565	0.740	1.00	13.32	A	C
ATOM	361	CG1	ILE	A	51	-7.412	-9.413	-0.994	1.00	11.86	A	C
ATOM	362	CD1	ILE	A	51	-8.850	-9.929	-1.314	1.00	17.82	A	C

Table 9

ATOM	363	C	ILE	A	51	-5.499	-8.229	2.162	1.00	13.69	A	C
ATOM	364	O	ILE	A	51	-5.500	-9.047	3.061	1.00	13.28	A	O
ATOM	365	N	ASP	A	52	-5.294	-6.920	2.379	1.00	13.02	A	N
ATOM	366	CA	ASP	A	52	-5.101	-6.354	3.734	1.00	13.79	A	C
ATOM	367	CB	ASP	A	52	-4.929	-4.831	3.581	1.00	21.62	A	C
ATOM	368	CG	ASP	A	52	-4.663	-4.126	4.897	1.00	35.29	A	C
ATOM	369	OD1	ASP	A	52	-3.488	-4.081	5.317	1.00	40.28	A	O
ATOM	370	OD2	ASP	A	52	-5.626	-3.624	5.520	1.00	40.49	A	O
ATOM	371	C	ASP	A	52	-6.345	-6.684	4.573	1.00	12.88	A	C
ATOM	372	O	ASP	A	52	-7.452	-6.641	4.080	1.00	14.12	A	O
ATOM	373	N	PRO	A	53	-6.172	-7.018	5.864	1.00	15.30	A	N
ATOM	374	CD	PRO	A	53	-4.886	-7.271	6.540	1.00	15.98	A	C
ATOM	375	CA	PRO	A	53	-7.318	-7.352	6.722	1.00	12.87	A	C
ATOM	376	CB	PRO	A	53	-6.707	-7.418	8.115	1.00	15.27	A	C
ATOM	377	CG	PRO	A	53	-5.295	-7.904	7.873	1.00	18.53	A	C
ATOM	378	C	PRO	A	53	-8.426	-6.301	6.679	1.00	13.59	A	C
ATOM	379	O	PRO	A	53	-9.622	-6.643	6.719	1.00	12.65	A	O
ATOM	380	N	ALA	A	54	-8.040	-5.016	6.621	1.00	11.85	A	N
ATOM	381	CA	ALA	A	54	-9.048	-3.976	6.633	1.00	11.10	A	C
ATOM	382	CB	ALA	A	54	-8.393	-2.573	6.897	1.00	11.54	A	C
ATOM	383	C	ALA	A	54	-9.833	-3.967	5.337	1.00	10.01	A	C
ATOM	384	O	ALA	A	54	-11.059	-3.767	5.343	1.00	9.03	A	O
ATOM	385	N	ALA	A	55	-9.116	-4.124	4.240	1.00	9.84	A	N
ATOM	386	CA	ALA	A	55	-9.781	-4.196	2.921	1.00	12.88	A	C
ATOM	387	CB	ALA	A	55	-8.742	-4.225	1.833	1.00	14.19	A	C
ATOM	388	C	ALA	A	55	-10.724	-5.434	2.819	1.00	12.09	A	C
ATOM	389	O	ALA	A	55	-11.855	-5.359	2.307	1.00	11.91	A	O
ATOM	390	N	ILE	A	56	-10.314	-6.585	3.328	1.00	12.25	A	N
ATOM	391	CA	ILE	A	56	-11.191	-7.736	3.162	1.00	12.58	A	C
ATOM	392	CB	ILE	A	56	-10.376	-9.072	3.357	1.00	14.06	A	C
ATOM	393	CG2	ILE	A	56	-10.161	-9.368	4.858	1.00	14.09	A	C
ATOM	394	CG1	ILE	A	56	-11.072	-10.200	2.582	1.00	12.18	A	C
ATOM	395	CD1	ILE	A	56	-10.134	-11.492	2.387	1.00	10.54	A	C
ATOM	396	C	ILE	A	56	-12.435	-7.633	4.072	1.00	11.50	A	C
ATOM	397	O	ILE	A	56	-13.514	-8.116	3.763	1.00	12.37	A	O
ATOM	398	N	HIS	A	57	-12.282	-6.928	5.180	1.00	11.18	A	N
ATOM	399	CA	HIS	A	57	-13.370	-6.675	6.118	1.00	9.65	A	C
ATOM	400	CB	HIS	A	57	-12.777	-5.986	7.354	1.00	10.72	A	C
ATOM	401	CG	HIS	A	57	-13.760	-5.757	8.455	1.00	13.94	A	C
ATOM	402	CD2	HIS	A	57	-14.990	-6.286	8.697	1.00	15.33	A	C
ATOM	403	ND1	HIS	A	57	-13.504	-4.888	9.494	1.00	13.06	A	N
ATOM	404	CE1	HIS	A	57	-14.533	-4.887	10.330	1.00	9.76	A	C
ATOM	405	NE2	HIS	A	57	-15.444	-5.725	9.874	1.00	14.49	A	N
ATOM	406	C	HIS	A	57	-14.419	-5.753	5.417	1.00	9.76	A	C
ATOM	407	O	HIS	A	57	-15.650	-5.965	5.480	1.00	10.55	A	O
ATOM	408	N	THR	A	58	-13.919	-4.756	4.697	1.00	10.69	A	N
ATOM	409	CA	THR	A	58	-14.835	-3.893	3.966	1.00	10.00	A	C
ATOM	410	CB	THR	A	58	-14.078	-2.661	3.410	1.00	10.72	A	C
ATOM	411	OG1	THR	A	58	-13.512	-1.911	4.518	1.00	11.88	A	O
ATOM	412	CG2	THR	A	58	-14.988	-1.756	2.548	1.00	10.14	A	C
ATOM	413	C	THR	A	58	-15.515	-4.714	2.825	1.00	10.69	A	C
ATOM	414	O	THR	A	58	-16.697	-4.534	2.549	1.00	9.46	A	O
ATOM	415	N	LEU	A	59	-14.774	-5.559	2.132	1.00	10.94	A	N
ATOM	416	CA	LEU	A	59	-15.363	-6.361	1.060	1.00	11.99	A	C
ATOM	417	CB	LEU	A	59	-14.280	-7.191	0.366	1.00	11.50	A	C
ATOM	418	CG	LEU	A	59	-13.297	-6.462	-0.577	1.00	12.01	A	C
ATOM	419	CD1	LEU	A	59	-12.145	-7.408	-0.947	1.00	13.92	A	C

Table 9

ATOM	420	CD2	LEU	A	59	-14.055	-6.004	-1.837	1.00	14.40	A	C
ATOM	421	C	LEU	A	59	-16.452	-7.273	1.616	1.00	14.08	A	C
ATOM	422	O	LEU	A	59	-17.465	-7.515	0.958	1.00	11.10	A	O
ATOM	423	N	GLU	A	60	-16.255	-7.790	2.829	1.00	11.27	A	N
ATOM	424	CA	GLU	A	60	-17.242	-8.665	3.447	1.00	12.55	A	C
ATOM	425	CB	GLU	A	60	-16.688	-9.226	4.777	1.00	16.10	A	C
ATOM	426	CG	GLU	A	60	-17.714	-9.978	5.617	1.00	15.31	A	C
ATOM	427	CD	GLU	A	60	-17.281	-10.073	7.098	1.00	24.01	A	C
ATOM	428	OE1	GLU	A	60	-17.082	-9.020	7.770	1.00	21.22	A	O
ATOM	429	OE2	GLU	A	60	-17.152	-11.212	7.606	1.00	16.18	A	O
ATOM	430	C	GLU	A	60	-18.544	-7.870	3.645	1.00	14.11	A	C
ATOM	431	O	GLU	A	60	-19.601	-8.320	3.203	1.00	14.61	A	O
ATOM	432	N	HIS	A	61	-18.451	-6.665	4.216	1.00	12.97	A	N
ATOM	433	CA	HIS	A	61	-19.641	-5.790	4.402	1.00	12.89	A	C
ATOM	434	CB	HIS	A	61	-19.232	-4.491	5.053	1.00	14.75	A	C
ATOM	435	CG	HIS	A	61	-19.044	-4.585	6.530	1.00	18.33	A	C
ATOM	436	CD2	HIS	A	61	-18.302	-5.432	7.287	1.00	19.84	A	C
ATOM	437	ND1	HIS	A	61	-19.776	-3.815	7.413	1.00	21.98	A	N
ATOM	438	CE1	HIS	A	61	-19.495	-4.187	8.654	1.00	24.99	A	C
ATOM	439	NE2	HIS	A	61	-18.607	-5.171	8.603	1.00	20.82	A	N
ATOM	440	C	HIS	A	61	-20.324	-5.440	3.039	1.00	11.25	A	C
ATOM	441	O	HIS	A	61	-21.566	-5.447	2.925	1.00	15.14	A	O
ATOM	442	N	LEU	A	62	-19.531	-5.115	2.029	1.00	11.30	A	N
ATOM	443	CA	LEU	A	62	-20.106	-4.730	0.735	1.00	13.83	A	C
ATOM	444	CB	LEU	A	62	-19.066	-3.997	-0.156	1.00	11.02	A	C
ATOM	445	CG	LEU	A	62	-18.532	-2.607	0.367	1.00	13.33	A	C
ATOM	446	CD1	LEU	A	62	-17.333	-2.106	-0.484	1.00	13.78	A	C
ATOM	447	CD2	LEU	A	62	-19.680	-1.601	0.419	1.00	16.29	A	C
ATOM	448	C	LEU	A	62	-20.694	-5.894	-0.035	1.00	15.56	A	C
ATOM	449	O	LEU	A	62	-21.801	-5.788	-0.570	1.00	13.01	A	O
ATOM	450	N	LEU	A	63	-19.998	-7.031	-0.062	1.00	13.69	A	N
ATOM	451	CA	LEU	A	63	-20.522	-8.143	-0.845	1.00	16.08	A	C
ATOM	452	CB	LEU	A	63	-19.420	-9.165	-1.157	1.00	13.19	A	C
ATOM	453	CG	LEU	A	63	-18.300	-8.682	-2.073	1.00	14.78	A	C
ATOM	454	CD1	LEU	A	63	-17.128	-9.714	-2.137	1.00	17.65	A	C
ATOM	455	CD2	LEU	A	63	-18.906	-8.497	-3.480	1.00	17.49	A	C
ATOM	456	C	LEU	A	63	-21.708	-8.831	-0.182	1.00	17.54	A	C
ATOM	457	O	LEU	A	63	-22.470	-9.487	-0.866	1.00	14.26	A	O
ATOM	458	N	ALA	A	64	-21.873	-8.648	1.131	1.00	16.81	A	N
ATOM	459	CA	ALA	A	64	-22.993	-9.268	1.869	1.00	21.30	A	C
ATOM	460	CB	ALA	A	64	-22.922	-8.887	3.355	1.00	21.52	A	C
ATOM	461	C	ALA	A	64	-24.280	-8.744	1.228	1.00	19.58	A	C
ATOM	462	O	ALA	A	64	-25.171	-9.507	0.852	1.00	19.98	A	O
ATOM	463	N	GLY	A	65	-24.328	-7.424	1.034	1.00	17.81	A	N
ATOM	464	CA	GLY	A	65	-25.473	-6.814	0.386	1.00	16.72	A	C
ATOM	465	C	GLY	A	65	-25.472	-6.963	-1.135	1.00	18.75	A	C
ATOM	466	O	GLY	A	65	-26.481	-7.365	-1.732	1.00	17.57	A	O
ATOM	467	N	TYR	A	66	-24.353	-6.704	-1.798	1.00	14.31	A	N
ATOM	468	CA	TYR	A	66	-24.381	-6.793	-3.225	1.00	13.85	A	C
ATOM	469	CB	TYR	A	66	-23.169	-6.078	-3.828	1.00	13.11	A	C
ATOM	470	CG	TYR	A	66	-23.173	-4.580	-3.635	1.00	13.38	A	C
ATOM	471	CD1	TYR	A	66	-22.011	-3.925	-3.266	1.00	11.92	A	C
ATOM	472	CE1	TYR	A	66	-21.967	-2.517	-3.125	1.00	14.94	A	C
ATOM	473	CD2	TYR	A	66	-24.330	-3.817	-3.865	1.00	13.50	A	C
ATOM	474	CE2	TYR	A	66	-24.303	-2.393	-3.731	1.00	17.38	A	C
ATOM	475	CZ	TYR	A	66	-23.117	-1.769	-3.364	1.00	16.79	A	C
ATOM	476	OH	TYR	A	66	-23.049	-0.415	-3.222	1.00	16.59	A	O

Table 9

ATOM	477	C	TYR	A	66	-24.568	-8.182	-3.840	1.00	13.21	A C
ATOM	478	O	TYR	A	66	-25.178	-8.304	-4.926	1.00	12.61	A O
ATOM	479	N	MSE	A	67	-24.078	-9.239	-3.182	1.00	13.16	A N
ATOM	480	CA	MSE	A	67	-24.308	-10.583	-3.730	1.00	15.39	A C
ATOM	481	CB	MSE	A	67	-23.491	-11.653	-2.981	1.00	13.60	A C
ATOM	482	CG	MSE	A	67	-22.031	-11.703	-3.317	1.00	20.59	A C
ATOM	483	SE	MSE	A	67	-21.696	-11.868	-5.257	1.00	25.48	A S
ATOM	484	CE	MSE	A	67	-22.413	-13.552	-5.595	1.00	13.65	A C
ATOM	485	C	MSE	A	67	-25.821	-10.872	-3.578	1.00	16.82	A C
ATOM	486	O	MSE	A	67	-26.425	-11.459	-4.471	1.00	15.78	A O
ATOM	487	N	ARG	A	68	-26.437	-10.435	-2.479	1.00	15.98	A N
ATOM	488	CA	ARG	A	68	-27.884	-10.665	-2.334	1.00	18.62	A C
ATOM	489	CB	ARG	A	68	-28.323	-10.303	-0.948	1.00	17.37	A C
ATOM	490	CG	ARG	A	68	-27.900	-11.365	0.051	1.00	21.24	A C
ATOM	491	CD	ARG	A	68	-28.202	-10.870	1.415	1.00	24.69	A C
ATOM	492	NE	ARG	A	68	-28.023	-11.886	2.420	1.00	22.20	A N
ATOM	493	CZ	ARG	A	68	-26.864	-12.199	2.991	1.00	23.68	A C
ATOM	494	NH1	ARG	A	68	-25.726	-11.567	2.655	1.00	20.93	A N
ATOM	495	NH2	ARG	A	68	-26.854	-13.152	3.915	1.00	18.96	A N
ATOM	496	C	ARG	A	68	-28.725	-9.912	-3.342	1.00	21.50	A C
ATOM	497	O	ARG	A	68	-29.845	-10.343	-3.710	1.00	21.72	A O
ATOM	498	N	ASP	A	69	-28.198	-8.786	-3.815	1.00	20.52	A N
ATOM	499	CA	ASP	A	69	-28.927	-8.015	-4.783	1.00	21.89	A C
ATOM	500	CB	ASP	A	69	-28.268	-6.609	-4.990	1.00	22.49	A C
ATOM	501	CG	ASP	A	69	-28.453	-5.650	-3.771	1.00	28.91	A C
ATOM	502	OD1	ASP	A	69	-29.348	-5.859	-2.904	1.00	24.55	A O
ATOM	503	OD2	ASP	A	69	-27.708	-4.642	-3.680	1.00	30.67	A O
ATOM	504	C	ASP	A	69	-28.994	-8.741	-6.131	1.00	21.66	A C
ATOM	505	O	ASP	A	69	-29.974	-8.569	-6.868	1.00	23.04	A O
ATOM	506	N	HIS	A	70	-27.973	-9.543	-6.458	1.00	17.59	A N
ATOM	507	CA	HIS	A	70	-27.891	-10.205	-7.765	1.00	17.31	A C
ATOM	508	CB	HIS	A	70	-26.521	-9.901	-8.397	1.00	18.88	A C
ATOM	509	CG	HIS	A	70	-26.301	-8.439	-8.637	1.00	19.35	A C
ATOM	510	CD2	HIS	A	70	-25.638	-7.501	-7.917	1.00	20.82	A C
ATOM	511	ND1	HIS	A	70	-26.922	-7.764	-9.673	1.00	18.82	A N
ATOM	512	CE1	HIS	A	70	-26.654	-6.470	-9.573	1.00	21.06	A C
ATOM	513	NE2	HIS	A	70	-25.879	-6.284	-8.516	1.00	23.91	A N
ATOM	514	C	HIS	A	70	-28.085	-11.720	-7.759	1.00	19.75	A C
ATOM	515	O	HIS	A	70	-28.052	-12.347	-8.837	1.00	18.34	A O
ATOM	516	N	LEU	A	71	-28.323	-12.297	-6.577	1.00	18.08	A N
ATOM	517	CA	LEU	A	71	-28.430	-13.764	-6.483	1.00	18.17	A C
ATOM	518	CB	LEU	A	71	-27.033	-14.347	-6.174	1.00	17.46	A C
ATOM	519	CG	LEU	A	71	-26.786	-15.866	-6.205	1.00	20.61	A C
ATOM	520	CD1	LEU	A	71	-27.207	-16.444	-7.559	1.00	17.79	A C
ATOM	521	CD2	LEU	A	71	-25.293	-16.185	-5.962	1.00	18.57	A C
ATOM	522	C	LEU	A	71	-29.384	-14.145	-5.371	1.00	19.87	A C
ATOM	523	O	LEU	A	71	-29.297	-13.587	-4.273	1.00	19.10	A O
ATOM	524	N	GLU	A	72	-30.273	-15.113	-5.622	1.00	19.18	A N
ATOM	525	CA	GLU	A	72	-31.211	-15.541	-4.546	1.00	22.06	A C
ATOM	526	CB	GLU	A	72	-32.533	-16.078	-5.120	1.00	27.39	A C
ATOM	527	CG	GLU	A	72	-33.275	-15.156	-6.041	1.00	44.73	A C
ATOM	528	CD	GLU	A	72	-34.126	-15.947	-7.018	1.00	55.67	A C
ATOM	529	OE1	GLU	A	72	-34.684	-17.004	-6.608	1.00	60.57	A O
ATOM	530	OE2	GLU	A	72	-34.230	-15.518	-8.192	1.00	57.60	A O
ATOM	531	C	GLU	A	72	-30.605	-16.716	-3.775	1.00	19.04	A C
ATOM	532	O	GLU	A	72	-29.735	-17.416	-4.306	1.00	17.86	A O
ATOM	533	N	GLY	A	77	-31.075	-16.908	-2.535	1.00	17.71	A N

Table 9

ATOM	534	CA	GLY	A	77	-30.647	-18.032	-1.711	1.00	17.29	A	C
ATOM	535	C	GLY	A	77	-29.284	-17.896	-1.065	1.00	16.61	A	C
ATOM	536	O	GLY	A	77	-28.746	-18.861	-0.615	1.00	12.74	A	O
ATOM	537	N	VAL	A	78	-28.701	-16.711	-1.060	1.00	15.43	A	N
ATOM	538	CA	VAL	A	78	-27.397	-16.530	-0.409	1.00	14.45	A	C
ATOM	539	CB	VAL	A	78	-26.891	-15.076	-0.598	1.00	11.80	A	C
ATOM	540	CG1	VAL	A	78	-25.687	-14.811	0.290	1.00	18.36	A	C
ATOM	541	CG2	VAL	A	78	-26.578	-14.854	-2.013	1.00	13.22	A	C
ATOM	542	C	VAL	A	78	-27.513	-16.828	1.090	1.00	13.20	A	C
ATOM	543	O	VAL	A	78	-28.410	-16.326	1.785	1.00	14.67	A	O
ATOM	544	N	VAL	A	79	-26.618	-17.651	1.606	1.00	11.48	A	N
ATOM	545	CA	VAL	A	79	-26.606	-17.938	3.043	1.00	16.00	A	C
ATOM	546	CB	VAL	A	79	-25.968	-19.349	3.319	1.00	14.53	A	C
ATOM	547	CG1	VAL	A	79	-25.820	-19.599	4.881	1.00	18.62	A	C
ATOM	548	CG2	VAL	A	79	-26.807	-20.407	2.643	1.00	18.88	A	C
ATOM	549	C	VAL	A	79	-25.750	-16.868	3.732	1.00	17.35	A	C
ATOM	550	O	VAL	A	79	-26.229	-16.164	4.631	1.00	19.05	A	O
ATOM	551	N	ASP	A	80	-24.503	-16.728	3.265	1.00	16.29	A	N
ATOM	552	CA	ASP	A	80	-23.510	-15.797	3.788	1.00	21.69	A	C
ATOM	553	CB	ASP	A	80	-22.958	-16.346	5.089	1.00	34.04	A	C
ATOM	554	CG	ASP	A	80	-21.959	-17.521	4.845	1.00	47.32	A	C
ATOM	555	OD1	ASP	A	80	-20.777	-17.399	5.266	1.00	53.01	A	O
ATOM	556	OD2	ASP	A	80	-22.342	-18.549	4.208	1.00	46.89	A	O
ATOM	557	C	ASP	A	80	-22.298	-15.686	2.850	1.00	19.59	A	C
ATOM	558	O	ASP	A	80	-22.011	-16.614	2.097	1.00	16.67	A	O
ATOM	559	N	VAL	A	81	-21.574	-14.565	2.933	1.00	16.43	A	N
ATOM	560	CA	VAL	A	81	-20.344	-14.382	2.178	1.00	15.68	A	C
ATOM	561	CB	VAL	A	81	-20.428	-13.111	1.252	1.00	18.68	A	C
ATOM	562	CG1	VAL	A	81	-19.130	-12.960	0.477	1.00	20.07	A	C
ATOM	563	CG2	VAL	A	81	-21.609	-13.258	0.279	1.00	22.38	A	C
ATOM	564	C	VAL	A	81	-19.306	-14.177	3.317	1.00	14.80	A	C
ATOM	565	O	VAL	A	81	-19.422	-13.262	4.154	1.00	13.86	A	O
ATOM	566	N	SER	A	82	-18.294	-15.033	3.369	1.00	12.55	A	N
ATOM	567	CA	SER	A	82	-17.313	-14.893	4.425	1.00	16.40	A	C
ATOM	568	CB	SER	A	82	-17.346	-16.133	5.334	1.00	16.92	A	C
ATOM	569	OG	SER	A	82	-18.462	-16.104	6.211	1.00	24.39	A	O
ATOM	570	C	SER	A	82	-15.914	-14.750	3.853	1.00	12.41	A	C
ATOM	571	O	SER	A	82	-15.592	-15.337	2.822	1.00	15.74	A	O
ATOM	572	N	PRO	A	83	-15.060	-13.964	4.516	1.00	13.83	A	N
ATOM	573	CD	PRO	A	83	-15.253	-13.181	5.756	1.00	14.63	A	C
ATOM	574	CA	PRO	A	83	-13.694	-13.860	3.978	1.00	10.84	A	C
ATOM	575	CB	PRO	A	83	-13.109	-12.686	4.761	1.00	12.34	A	C
ATOM	576	CG	PRO	A	83	-13.831	-12.796	6.133	1.00	15.49	A	C
ATOM	577	C	PRO	A	83	-12.929	-15.184	4.292	1.00	11.44	A	C
ATOM	578	O	PRO	A	83	-13.219	-15.878	5.273	1.00	11.92	A	O
ATOM	579	N	MSE	A	84	-11.939	-15.543	3.474	1.00	9.68	A	N
ATOM	580	CA	MSE	A	84	-11.106	-16.717	3.761	1.00	9.56	A	C
ATOM	581	CB	MSE	A	84	-10.448	-17.242	2.457	1.00	7.17	A	C
ATOM	582	CG	MSE	A	84	-11.457	-17.754	1.507	1.00	11.68	A	C
ATOM	583	SE	MSE	A	84	-10.626	-18.467	-0.072	1.00	20.13	A	S
ATOM	584	CE	MSE	A	84	-9.930	-17.172	-0.822	1.00	15.29	A	C
ATOM	585	C	MSE	A	84	-9.957	-16.327	4.703	1.00	7.62	A	C
ATOM	586	O	MSE	A	84	-9.461	-15.196	4.612	1.00	9.19	A	O
ATOM	587	N	GLY	A	85	-9.513	-17.256	5.553	1.00	10.08	A	N
ATOM	588	CA	GLY	A	85	-8.379	-16.993	6.439	1.00	8.73	A	C
ATOM	589	C	GLY	A	85	-7.142	-16.648	5.609	1.00	11.36	A	C
ATOM	590	O	GLY	A	85	-6.304	-15.799	6.036	1.00	9.78	A	O

Table 9

ATOM	591	N	CYS	A	86	-7.020	-17.245	4.411	1.00	6.61	A	N
ATOM	592	CA	CYS	A	86	-5.879	-16.961	3.554	1.00	12.23	A	C
ATOM	593	CB	CYS	A	86	-5.698	-18.075	2.523	1.00	9.55	A	C
ATOM	594	SG	CYS	A	86	-7.150	-18.359	1.488	1.00	14.81	A	S
ATOM	595	C	CYS	A	86	-5.935	-15.566	2.862	1.00	10.47	A	C
ATOM	596	O	CYS	A	86	-4.933	-15.143	2.233	1.00	10.10	A	O
ATOM	597	N	ARG	A	87	-7.079	-14.873	3.004	1.00	10.24	A	N
ATOM	598	CA	ARG	A	87	-7.266	-13.517	2.475	1.00	11.44	A	C
ATOM	599	CB	ARG	A	87	-6.377	-12.529	3.267	1.00	10.20	A	C
ATOM	600	CG	ARG	A	87	-6.853	-12.463	4.761	1.00	13.45	A	C
ATOM	601	CD	ARG	A	87	-6.109	-11.479	5.709	1.00	15.27	A	C
ATOM	602	NE	ARG	A	87	-4.756	-11.922	6.048	1.00	15.84	A	N
ATOM	603	CZ	ARG	A	87	-3.644	-11.346	5.630	1.00	15.04	A	C
ATOM	604	NH1	ARG	A	87	-3.698	-10.291	4.843	1.00	12.75	A	N
ATOM	605	NH2	ARG	A	87	-2.454	-11.806	6.019	1.00	18.28	A	N
ATOM	606	C	ARG	A	87	-6.991	-13.345	0.980	1.00	12.02	A	C
ATOM	607	O	ARG	A	87	-6.485	-12.296	0.575	1.00	12.05	A	O
ATOM	608	N	THR	A	88	-7.295	-14.378	0.189	1.00	7.44	A	N
ATOM	609	CA	THR	A	88	-7.117	-14.300	-1.260	1.00	10.62	A	C
ATOM	610	CB	THR	A	88	-6.214	-15.448	-1.879	1.00	11.48	A	C
ATOM	611	OG1	THR	A	88	-6.750	-16.742	-1.593	1.00	15.25	A	O
ATOM	612	CG2	THR	A	88	-4.789	-15.334	-1.344	1.00	17.15	A	C
ATOM	613	C	THR	A	88	-8.477	-14.377	-1.905	1.00	10.26	A	C
ATOM	614	O	THR	A	88	-8.603	-14.240	-3.113	1.00	10.19	A	O
ATOM	615	N	GLY	A	89	-9.513	-14.572	-1.090	1.00	11.24	A	N
ATOM	616	CA	GLY	A	89	-10.859	-14.694	-1.666	1.00	12.36	A	C
ATOM	617	C	GLY	A	89	-11.903	-14.855	-0.603	1.00	12.48	A	C
ATOM	618	O	GLY	A	89	-11.580	-14.690	0.574	1.00	11.27	A	O
ATOM	619	N	MSE	A	90	-13.142	-15.176	-0.999	1.00	11.02	A	N
ATOM	620	CA	MSE	A	90	-14.253	-15.323	-0.057	1.00	12.75	A	C
ATOM	621	CB	MSE	A	90	-15.339	-14.235	-0.201	1.00	14.12	A	C
ATOM	622	CG	MSE	A	90	-14.946	-12.905	-0.748	1.00	23.33	A	C
ATOM	623	SE	MSE	A	90	-14.127	-11.771	0.629	1.00	35.31	A	S
ATOM	624	CE	MSE	A	90	-15.579	-11.499	1.705	1.00	13.36	A	C
ATOM	625	C	MSE	A	90	-14.973	-16.621	-0.367	1.00	11.58	A	C
ATOM	626	O	MSE	A	90	-14.870	-17.142	-1.495	1.00	10.44	A	O
ATOM	627	N	TYR	A	91	-15.688	-17.135	0.642	1.00	10.97	A	N
ATOM	628	CA	TYR	A	91	-16.500	-18.306	0.458	1.00	13.93	A	C
ATOM	629	CB	TYR	A	91	-16.301	-19.334	1.561	1.00	17.10	A	C
ATOM	630	CG	TYR	A	91	-15.300	-20.415	1.222	1.00	25.26	A	C
ATOM	631	CD1	TYR	A	91	-15.453	-21.208	0.074	1.00	26.72	A	C
ATOM	632	CE1	TYR	A	91	-14.519	-22.213	-0.253	1.00	27.08	A	C
ATOM	633	CD2	TYR	A	91	-14.197	-20.643	2.046	1.00	30.10	A	C
ATOM	634	CE2	TYR	A	91	-13.248	-21.642	1.746	1.00	31.79	A	C
ATOM	635	CZ	TYR	A	91	-13.410	-22.422	0.608	1.00	33.03	A	C
ATOM	636	OH	TYR	A	91	-12.485	-23.423	0.371	1.00	36.38	A	O
ATOM	637	C	TYR	A	91	-17.941	-17.824	0.524	1.00	13.21	A	C
ATOM	638	O	TYR	A	91	-18.285	-16.933	1.319	1.00	13.35	A	O
ATOM	639	N	MSE	A	92	-18.791	-18.411	-0.309	1.00	9.87	A	N
ATOM	640	CA	MSE	A	92	-20.198	-18.058	-0.240	1.00	13.17	A	C
ATOM	641	CB	MSE	A	92	-20.571	-17.004	-1.281	1.00	12.18	A	C
ATOM	642	CG	MSE	A	92	-22.114	-16.892	-1.363	1.00	14.51	A	C
ATOM	643	SE	MSE	A	92	-22.553	-15.631	-2.810	1.00	19.61	A	S
ATOM	644	CE	MSE	A	92	-22.121	-16.797	-4.300	1.00	16.44	A	C
ATOM	645	C	MSE	A	92	-21.045	-19.285	-0.453	1.00	12.22	A	C
ATOM	646	O	MSE	A	92	-20.889	-19.988	-1.475	1.00	14.78	A	O
ATOM	647	N	ALA	A	93	-21.898	-19.567	0.544	1.00	13.25	A	N

Table 9

ATOM	648	CA	ALA	A	93	-22.835	-20.688	0.476	1.00	14.20	A	C
ATOM	649	CB	ALA	A	93	-23.040	-21.302	1.867	1.00	17.00	A	C
ATOM	650	C	ALA	A	93	-24.163	-20.118	-0.036	1.00	15.02	A	C
ATOM	651	O	ALA	A	93	-24.541	-18.997	0.337	1.00	12.22	A	O
ATOM	652	N	VAL	A	94	-24.834	-20.904	-0.874	1.00	12.79	A	N
ATOM	653	CA	VAL	A	94	-26.094	-20.543	-1.529	1.00	13.50	A	C
ATOM	654	CB	VAL	A	94	-25.844	-20.215	-3.031	1.00	11.79	A	C
ATOM	655	CG1	VAL	A	94	-27.180	-19.746	-3.763	1.00	12.91	A	C
ATOM	656	CG2	VAL	A	94	-24.748	-19.209	-3.141	1.00	12.22	A	C
ATOM	657	C	VAL	A	94	-27.054	-21.724	-1.493	1.00	13.94	A	C
ATOM	658	O	VAL	A	94	-26.657	-22.886	-1.763	1.00	14.33	A	O
ATOM	659	N	ILE	A	95	-28.304	-21.440	-1.176	1.00	14.91	A	N
ATOM	660	CA	ILE	A	95	-29.310	-22.509	-1.186	1.00	19.89	A	C
ATOM	661	CB	ILE	A	95	-30.515	-22.189	-0.302	1.00	21.42	A	C
ATOM	662	CG2	ILE	A	95	-31.614	-23.205	-0.558	1.00	28.88	A	C
ATOM	663	CG1	ILE	A	95	-30.112	-22.225	1.164	1.00	25.19	A	C
ATOM	664	CD1	ILE	A	95	-31.194	-21.752	2.115	1.00	28.32	A	C
ATOM	665	C	ILE	A	95	-29.778	-22.662	-2.618	1.00	21.25	A	C
ATOM	666	O	ILE	A	95	-30.447	-21.790	-3.156	1.00	24.57	A	O
ATOM	667	N	GLY	A	96	-29.405	-23.774	-3.225	1.00	19.26	A	N
ATOM	668	CA	GLY	A	96	-29.770	-24.042	-4.600	1.00	21.24	A	C
ATOM	669	C	GLY	A	96	-28.759	-24.944	-5.281	1.00	18.65	A	C
ATOM	670	O	GLY	A	96	-27.629	-25.162	-4.829	1.00	16.53	A	O
ATOM	671	N	GLU	A	97	-29.203	-25.490	-6.398	1.00	21.46	A	N
ATOM	672	CA	GLU	A	97	-28.409	-26.383	-7.227	1.00	22.87	A	C
ATOM	673	CB	GLU	A	97	-29.250	-26.755	-8.460	1.00	25.94	A	C
ATOM	674	CG	GLU	A	97	-29.467	-25.503	-9.388	1.00	37.40	A	C
ATOM	675	CD	GLU	A	97	-29.882	-24.195	-8.620	1.00	47.51	A	C
ATOM	676	OE1	GLU	A	97	-30.962	-24.237	-7.966	1.00	51.52	A	O
ATOM	677	OE2	GLU	A	97	-29.145	-23.132	-8.657	1.00	39.85	A	O
ATOM	678	C	GLU	A	97	-27.183	-25.604	-7.707	1.00	19.72	A	C
ATOM	679	O	GLU	A	97	-27.228	-24.370	-7.796	1.00	20.30	A	O
ATOM	680	N	PRO	A	98	-26.083	-26.308	-7.991	1.00	18.66	A	N
ATOM	681	CD	PRO	A	98	-25.920	-27.754	-7.753	1.00	19.97	A	C
ATOM	682	CA	PRO	A	98	-24.831	-25.746	-8.473	1.00	18.12	A	C
ATOM	683	CB	PRO	A	98	-23.991	-26.972	-8.744	1.00	20.94	A	C
ATOM	684	CG	PRO	A	98	-24.431	-27.892	-7.681	1.00	19.03	A	C
ATOM	685	C	PRO	A	98	-25.117	-24.989	-9.749	1.00	18.97	A	C
ATOM	686	O	PRO	A	98	-25.876	-25.463	-10.626	1.00	16.60	A	O
ATOM	687	N	ASP	A	99	-24.513	-23.814	-9.863	1.00	15.08	A	N
ATOM	688	CA	ASP	A	99	-24.731	-22.972	-11.049	1.00	17.72	A	C
ATOM	689	CB	ASP	A	99	-26.062	-22.189	-10.932	1.00	20.51	A	C
ATOM	690	CG	ASP	A	99	-26.338	-21.283	-12.174	1.00	25.39	A	C
ATOM	691	OD1	ASP	A	99	-25.540	-21.348	-13.124	1.00	22.97	A	O
ATOM	692	OD2	ASP	A	99	-27.332	-20.513	-12.189	1.00	27.71	A	O
ATOM	693	C	ASP	A	99	-23.541	-22.009	-11.094	1.00	13.96	A	C
ATOM	694	O	ASP	A	99	-23.658	-20.820	-10.757	1.00	13.65	A	O
ATOM	695	N	GLU	A	100	-22.423	-22.532	-11.518	1.00	13.78	A	N
ATOM	696	CA	GLU	A	100	-21.203	-21.706	-11.522	1.00	15.93	A	C
ATOM	697	CB	GLU	A	100	-19.961	-22.565	-11.847	1.00	19.04	A	C
ATOM	698	CG	GLU	A	100	-19.441	-23.446	-10.681	1.00	25.49	A	C
ATOM	699	CD	GLU	A	100	-18.377	-24.498	-11.119	1.00	27.79	A	C
ATOM	700	OE1	GLU	A	100	-18.662	-25.286	-12.072	1.00	31.02	A	O
ATOM	701	OE2	GLU	A	100	-17.257	-24.559	-10.521	1.00	30.06	A	O
ATOM	702	C	GLU	A	100	-21.324	-20.553	-12.470	1.00	13.78	A	C
ATOM	703	O	GLU	A	100	-20.885	-19.412	-12.161	1.00	13.49	A	O
ATOM	704	N	GLN	A	101	-21.955	-20.777	-13.606	1.00	14.10	A	N

Table 9

ATOM	705	CA	GLN	A	101	-22.068	-19.677	-14.557	1.00	18.06	A C
ATOM	706	CB	GLN	A	101	-22.682	-20.198	-15.856	1.00	23.15	A C
ATOM	707	CG	GLN	A	101	-22.816	-19.118	-16.877	1.00	27.67	A C
ATOM	708	CD	GLN	A	101	-21.485	-18.723	-17.480	1.00	28.91	A C
ATOM	709	OE1	GLN	A	101	-20.487	-19.399	-17.306	1.00	28.13	A O
ATOM	710	NE2	GLN	A	101	-21.482	-17.624	-18.230	1.00	32.24	A N
ATOM	711	C	GLN	A	101	-22.917	-18.501	-14.009	1.00	16.39	A C
ATOM	712	O	GLN	A	101	-22.565	-17.309	-14.140	1.00	18.74	A O
ATOM	713	N	GLY	A	102	-24.047	-18.824	-13.408	1.00	16.72	A N
ATOM	714	CA	GLY	A	102	-24.903	-17.779	-12.869	1.00	15.97	A C
ATOM	715	C	GLY	A	102	-24.211	-17.106	-11.700	1.00	16.85	A C
ATOM	716	O	GLY	A	102	-24.366	-15.885	-11.491	1.00	14.15	A O
ATOM	717	N	VAL	A	103	-23.459	-17.883	-10.907	1.00	13.03	A N
ATOM	718	CA	VAL	A	103	-22.757	-17.247	-9.786	1.00	12.93	A C
ATOM	719	CB	VAL	A	103	-22.214	-18.313	-8.808	1.00	13.83	A C
ATOM	720	CG1	VAL	A	103	-21.141	-17.717	-7.859	1.00	11.96	A C
ATOM	721	CG2	VAL	A	103	-23.397	-18.821	-8.005	1.00	14.97	A C
ATOM	722	C	VAL	A	103	-21.672	-16.294	-10.315	1.00	12.38	A C
ATOM	723	O	VAL	A	103	-21.447	-15.196	-9.719	1.00	13.28	A O
ATOM	724	N	MSE	A	104	-20.951	-16.682	-11.377	1.00	15.15	A N
ATOM	725	CA	MSE	A	104	-19.931	-15.758	-11.963	1.00	16.76	A C
ATOM	726	CB	MSE	A	104	-19.225	-16.303	-13.211	1.00	15.59	A C
ATOM	727	CG	MSE	A	104	-18.540	-15.136	-14.170	1.00	16.84	A C
ATOM	728	SE	MSE	A	104	-17.390	-16.237	-15.136	1.00	36.17	A S
ATOM	729	CE	MSE	A	104	-16.691	-16.947	-13.537	1.00	23.35	A C
ATOM	730	C	MSE	A	104	-20.579	-14.437	-12.411	1.00	17.32	A C
ATOM	731	O	MSE	A	104	-20.033	-13.356	-12.161	1.00	16.62	A O
ATOM	732	N	LYS	A	105	-21.728	-14.519	-13.078	1.00	17.26	A N
ATOM	733	CA	LYS	A	105	-22.413	-13.306	-13.554	1.00	18.55	A C
ATOM	734	CB	LYS	A	105	-23.622	-13.706	-14.414	1.00	22.06	A C
ATOM	735	CG	LYS	A	105	-23.192	-14.429	-15.707	1.00	29.55	A C
ATOM	736	CD	LYS	A	105	-22.197	-13.564	-16.542	1.00	35.46	A C
ATOM	737	CE	LYS	A	105	-21.663	-14.298	-17.806	1.00	36.89	A C
ATOM	738	NZ	LYS	A	105	-20.498	-13.612	-18.493	1.00	32.91	A N
ATOM	739	C	LYS	A	105	-22.843	-12.385	-12.401	1.00	17.64	A C
ATOM	740	O	LYS	A	105	-22.669	-11.164	-12.480	1.00	16.27	A O
ATOM	741	N	ALA	A	106	-23.332	-12.999	-11.320	1.00	14.39	A N
ATOM	742	CA	ALA	A	106	-23.755	-12.285	-10.124	1.00	14.22	A C
ATOM	743	CB	ALA	A	106	-24.453	-13.223	-9.146	1.00	18.72	A C
ATOM	744	C	ALA	A	106	-22.560	-11.636	-9.433	1.00	14.59	A C
ATOM	745	O	ALA	A	106	-22.678	-10.504	-8.957	1.00	13.64	A O
ATOM	746	N	PHE	A	107	-21.431	-12.355	-9.368	1.00	12.52	A N
ATOM	747	CA	PHE	A	107	-20.202	-11.864	-8.721	1.00	13.37	A C
ATOM	748	CB	PHE	A	107	-19.147	-13.003	-8.618	1.00	9.44	A C
ATOM	749	CG	PHE	A	107	-17.886	-12.662	-7.858	1.00	12.22	A C
ATOM	750	CD1	PHE	A	107	-17.929	-11.917	-6.670	1.00	16.77	A C
ATOM	751	CD2	PHE	A	107	-16.651	-13.118	-8.301	1.00	13.95	A C
ATOM	752	CE1	PHE	A	107	-16.751	-11.645	-5.957	1.00	17.18	A C
ATOM	753	CE2	PHE	A	107	-15.475	-12.853	-7.592	1.00	18.23	A C
ATOM	754	CZ	PHE	A	107	-15.532	-12.113	-6.416	1.00	16.02	A C
ATOM	755	C	PHE	A	107	-19.680	-10.710	-9.553	1.00	12.62	A C
ATOM	756	O	PHE	A	107	-19.288	-9.693	-9.015	1.00	9.77	A O
ATOM	757	N	GLU	A	108	-19.725	-10.857	-10.873	1.00	15.36	A N
ATOM	758	CA	GLU	A	108	-19.305	-9.799	-11.775	1.00	19.47	A C
ATOM	759	CB	GLU	A	108	-19.443	-10.301	-13.208	1.00	26.38	A C
ATOM	760	CG	GLU	A	108	-18.961	-9.350	-14.285	1.00	38.08	A C
ATOM	761	CD	GLU	A	108	-19.038	-10.003	-15.661	1.00	44.75	A C

Table 9

ATOM	762	OE1	GLU	A	108	-20.163	-10.358	-16.100	1.00	43.73	A	O
ATOM	763	OE2	GLU	A	108	-17.968	-10.175	-16.291	1.00	50.02	A	O
ATOM	764	C	GLU	A	108	-20.145	-8.522	-11.517	1.00	16.33	A	C
ATOM	765	O	GLU	A	108	-19.562	-7.423	-11.350	1.00	15.44	A	O
ATOM	766	N	ALA	A	109	-21.469	-8.661	-11.390	1.00	14.30	A	N
ATOM	767	CA	ALA	A	109	-22.339	-7.499	-11.138	1.00	12.79	A	C
ATOM	768	CB	ALA	A	109	-23.824	-7.843	-11.293	1.00	12.09	A	C
ATOM	769	C	ALA	A	109	-22.086	-6.927	-9.755	1.00	14.30	A	C
ATOM	770	O	ALA	A	109	-22.026	-5.722	-9.588	1.00	17.09	A	O
ATOM	771	N	ALA	A	110	-21.919	-7.779	-8.745	1.00	14.71	A	N
ATOM	772	CA	ALA	A	110	-21.634	-7.298	-7.387	1.00	11.79	A	C
ATOM	773	CB	ALA	A	110	-21.634	-8.476	-6.348	1.00	12.71	A	C
ATOM	774	C	ALA	A	110	-20.284	-6.588	-7.317	1.00	13.26	A	C
ATOM	775	O	ALA	A	110	-20.125	-5.667	-6.503	1.00	11.40	A	O
ATOM	776	N	LEU	A	111	-19.310	-7.005	-8.130	1.00	10.95	A	N
ATOM	777	CA	LEU	A	111	-17.994	-6.346	-8.112	1.00	12.49	A	C
ATOM	778	CB	LEU	A	111	-16.942	-7.198	-8.819	1.00	9.82	A	C
ATOM	779	CG	LEU	A	111	-16.517	-8.455	-8.007	1.00	9.71	A	C
ATOM	780	CD1	LEU	A	111	-15.610	-9.281	-8.884	1.00	13.19	A	C
ATOM	781	CD2	LEU	A	111	-15.814	-8.112	-6.678	1.00	15.12	A	C
ATOM	782	C	LEU	A	111	-18.071	-4.965	-8.750	1.00	10.82	A	C
ATOM	783	O	LEU	A	111	-17.338	-4.031	-8.351	1.00	10.44	A	O
ATOM	784	N	LYS	A	112	-18.952	-4.819	-9.723	1.00	9.23	A	N
ATOM	785	CA	LYS	A	112	-19.144	-3.485	-10.350	1.00	12.71	A	C
ATOM	786	CB	LYS	A	112	-20.061	-3.567	-11.589	1.00	17.32	A	C
ATOM	787	CG	LYS	A	112	-19.406	-4.234	-12.805	1.00	24.93	A	C
ATOM	788	CD	LYS	A	112	-20.405	-4.409	-13.981	1.00	26.79	A	C
ATOM	789	CE	LYS	A	112	-19.797	-5.247	-15.130	1.00	31.58	A	C
ATOM	790	NZ	LYS	A	112	-20.813	-5.545	-16.199	1.00	33.41	A	N
ATOM	791	C	LYS	A	112	-19.730	-2.524	-9.321	1.00	13.93	A	C
ATOM	792	O	LYS	A	112	-19.258	-1.363	-9.209	1.00	11.42	A	O
ATOM	793	N	ASP	A	113	-20.703	-3.018	-8.535	1.00	13.71	A	N
ATOM	794	CA	ASP	A	113	-21.347	-2.242	-7.464	1.00	14.64	A	C
ATOM	795	CB	ASP	A	113	-22.452	-3.056	-6.783	1.00	13.08	A	C
ATOM	796	CG	ASP	A	113	-23.670	-3.311	-7.671	1.00	18.84	A	C
ATOM	797	OD1	ASP	A	113	-24.420	-4.315	-7.402	1.00	20.66	A	O
ATOM	798	OD2	ASP	A	113	-23.928	-2.523	-8.624	1.00	18.98	A	O
ATOM	799	C	ASP	A	113	-20.263	-1.898	-6.395	1.00	15.59	A	C
ATOM	800	O	ASP	A	113	-20.185	-0.746	-5.933	1.00	14.48	A	O
ATOM	801	N	THR	A	114	-19.424	-2.885	-6.035	1.00	12.43	A	N
ATOM	802	CA	THR	A	114	-18.348	-2.657	-5.062	1.00	12.40	A	C
ATOM	803	CB	THR	A	114	-17.592	-4.004	-4.719	1.00	9.18	A	C
ATOM	804	OG1	THR	A	114	-18.576	-4.921	-4.228	1.00	14.55	A	O
ATOM	805	CG2	THR	A	114	-16.532	-3.801	-3.633	1.00	14.23	A	C
ATOM	806	C	THR	A	114	-17.333	-1.609	-5.568	1.00	13.51	A	C
ATOM	807	O	THR	A	114	-16.971	-0.683	-4.834	1.00	15.20	A	O
ATOM	808	N	ALA	A	115	-16.906	-1.725	-6.811	1.00	14.81	A	N
ATOM	809	CA	ALA	A	115	-15.928	-0.775	-7.345	1.00	15.06	A	C
ATOM	810	CB	ALA	A	115	-15.454	-1.229	-8.757	1.00	16.67	A	C
ATOM	811	C	ALA	A	115	-16.481	0.652	-7.410	1.00	16.95	A	C
ATOM	812	O	ALA	A	115	-15.716	1.638	-7.289	1.00	15.48	A	O
ATOM	813	N	GLY	A	116	-17.788	0.783	-7.578	1.00	13.97	A	N
ATOM	814	CA	GLY	A	116	-18.346	2.132	-7.661	1.00	16.30	A	C
ATOM	815	C	GLY	A	116	-18.941	2.612	-6.367	1.00	16.89	A	C
ATOM	816	O	GLY	A	116	-19.638	3.613	-6.354	1.00	18.37	A	O
ATOM	817	N	HIS	A	117	-18.684	1.907	-5.263	1.00	14.27	A	N
ATOM	818	CA	HIS	A	117	-19.255	2.256	-3.979	1.00	16.47	A	C

Table 9

ATOM	819	CB	HIS A 117	-19.202	1.052	-3.020	1.00	13.83	A	C
ATOM	820	CG	HIS A 117	-20.015	1.243	-1.794	1.00	15.60	A	C
ATOM	821	CD2	HIS A 117	-19.708	1.835	-0.620	1.00	11.97	A	C
ATOM	822	ND1	HIS A 117	-21.352	0.878	-1.711	1.00	15.82	A	N
ATOM	823	CE1	HIS A 117	-21.828	1.242	-0.533	1.00	17.22	A	C
ATOM	824	NE2	HIS A 117	-20.854	1.824	0.146	1.00	19.47	A	N
ATOM	825	C	HIS A 117	-18.598	3.473	-3.321	1.00	16.38	A	C
ATOM	826	O	HIS A 117	-17.478	3.388	-2.742	1.00	14.43	A	O
ATOM	827	N	ASP A 118	-19.323	4.602	-3.397	1.00	17.63	A	N
ATOM	828	CA	ASP A 118	-18.820	5.881	-2.866	1.00	19.04	A	C
ATOM	829	CB	ASP A 118	-18.725	6.965	-3.964	1.00	20.27	A	C
ATOM	830	CG	ASP A 118	-20.025	7.172	-4.780	1.00	23.85	A	C
ATOM	831	OD1	ASP A 118	-21.136	6.795	-4.355	1.00	24.23	A	O
ATOM	832	OD2	ASP A 118	-19.918	7.770	-5.887	1.00	31.02	A	O
ATOM	833	C	ASP A 118	-19.607	6.403	-1.706	1.00	18.23	A	C
ATOM	834	O	ASP A 118	-19.364	7.504	-1.197	1.00	20.04	A	O
ATOM	835	N	GLN A 120	-20.537	5.593	-1.253	1.00	17.41	A	N
ATOM	836	CA	GLN A 120	-21.341	5.939	-0.121	1.00	21.80	A	C
ATOM	837	CB	GLN A 120	-22.779	5.476	-0.385	1.00	29.30	A	C
ATOM	838	CG	GLN A 120	-23.502	6.428	-1.343	1.00	45.72	A	C
ATOM	839	CD	GLN A 120	-24.350	5.715	-2.379	1.00	54.72	A	C
ATOM	840	OE1	GLN A 120	-25.313	5.017	-2.035	1.00	58.84	A	O
ATOM	841	NE2	GLN A 120	-24.002	5.886	-3.664	1.00	57.69	A	N
ATOM	842	C	GLN A 120	-20.731	5.306	1.133	1.00	21.57	A	C
ATOM	843	O	GLN A 120	-19.779	4.518	1.070	1.00	17.40	A	O
ATOM	844	N	PRO A 122	-21.273	5.625	2.303	1.00	23.88	A	N
ATOM	845	CD	PRO A 122	-22.428	6.479	2.649	1.00	28.10	A	C
ATOM	846	CA	PRO A 122	-20.673	5.010	3.492	1.00	21.84	A	C
ATOM	847	CB	PRO A 122	-21.544	5.539	4.636	1.00	25.32	A	C
ATOM	848	CG	PRO A 122	-22.108	6.853	4.089	1.00	25.90	A	C
ATOM	849	C	PRO A 122	-20.716	3.472	3.428	1.00	22.40	A	C
ATOM	850	O	PRO A 122	-21.593	2.893	2.751	1.00	16.70	A	O
ATOM	851	N	ILE A 123	-19.779	2.824	4.133	1.00	21.79	A	N
ATOM	852	CA	ILE A 123	-19.748	1.372	4.176	1.00	22.54	A	C
ATOM	853	CB	ILE A 123	-18.422	0.817	4.778	1.00	21.37	A	C
ATOM	854	CG2	ILE A 123	-18.482	-0.714	4.842	1.00	18.96	A	C
ATOM	855	CG1	ILE A 123	-17.229	1.188	3.890	1.00	19.39	A	C
ATOM	856	CD1	ILE A 123	-15.855	1.320	4.715	1.00	16.80	A	C
ATOM	857	C	ILE A 123	-20.904	0.939	5.038	1.00	23.16	A	C
ATOM	858	O	ILE A 123	-21.033	1.378	6.191	1.00	19.26	A	O
ATOM	859	N	PRO A 124	-21.799	0.096	4.484	1.00	24.37	A	N
ATOM	860	CD	PRO A 124	-21.838	-0.474	3.122	1.00	21.93	A	C
ATOM	861	CA	PRO A 124	-22.938	-0.351	5.307	1.00	24.28	A	C
ATOM	862	CB	PRO A 124	-23.802	-1.160	4.319	1.00	26.18	A	C
ATOM	863	CG	PRO A 124	-22.838	-1.612	3.262	1.00	26.98	A	C
ATOM	864	C	PRO A 124	-22.519	-1.199	6.544	1.00	25.22	A	C
ATOM	865	O	PRO A 124	-21.587	-2.047	6.474	1.00	19.89	A	O
ATOM	866	N	GLY A 125	-23.192	-0.946	7.671	1.00	26.12	A	N
ATOM	867	CA	GLY A 125	-22.936	-1.714	8.877	1.00	29.88	A	C
ATOM	868	C	GLY A 125	-21.694	-1.348	9.640	1.00	31.38	A	C
ATOM	869	O	GLY A 125	-21.191	-2.136	10.440	1.00	34.78	A	O
ATOM	870	N	VAL A 126	-21.177	-0.156	9.384	1.00	32.81	A	N
ATOM	871	CA	VAL A 126	-19.986	0.253	10.079	1.00	34.84	A	C
ATOM	872	CB	VAL A 126	-18.914	0.807	9.127	1.00	35.66	A	C
ATOM	873	CG1	VAL A 126	-17.705	1.254	9.944	1.00	30.48	A	C
ATOM	874	CG2	VAL A 126	-18.496	-0.262	8.125	1.00	40.36	A	C
ATOM	875	C	VAL A 126	-20.279	1.305	11.137	1.00	36.43	A	C

Table 9

ATOM	876	O	VAL	A	126	-20.675	2.426	10.824	1.00	38.21	A O
ATOM	877	N	SER	A	127	-20.078	0.895	12.389	1.00	34.50	A N
ATOM	878	CA	SER	A	127	-20.254	1.711	13.594	1.00	32.58	A C
ATOM	879	CB	SER	A	127	-21.682	2.280	13.696	1.00	29.85	A C
ATOM	880	OG	SER	A	127	-22.624	1.284	14.015	1.00	28.16	A O
ATOM	881	C	SER	A	127	-19.979	0.717	14.731	1.00	31.17	A C
ATOM	882	O	SER	A	127	-20.014	-0.495	14.503	1.00	29.45	A O
ATOM	883	N	GLU	A	128	-19.688	1.225	15.929	1.00	30.90	A N
ATOM	884	CA	GLU	A	128	-19.400	0.392	17.098	1.00	31.89	A C
ATOM	885	CB	GLU	A	128	-19.067	1.251	18.330	1.00	37.41	A C
ATOM	886	CG	GLU	A	128	-17.975	2.288	18.146	1.00	50.33	A C
ATOM	887	CD	GLU	A	128	-18.486	3.659	17.669	1.00	59.94	A C
ATOM	888	OE1	GLU	A	128	-18.115	4.689	18.298	1.00	62.45	A O
ATOM	889	OE2	GLU	A	128	-19.241	3.720	16.665	1.00	60.92	A O
ATOM	890	C	GLU	A	128	-20.620	-0.460	17.444	1.00	29.96	A C
ATOM	891	O	GLU	A	128	-20.495	-1.551	18.004	1.00	26.50	A O
ATOM	892	N	LEU	A	129	-21.804	0.041	17.117	1.00	27.64	A N
ATOM	893	CA	LEU	A	129	-23.034	-0.691	17.418	1.00	26.40	A C
ATOM	894	CB	LEU	A	129	-24.233	0.219	17.261	1.00	27.97	A C
ATOM	895	CG	LEU	A	129	-24.462	1.396	18.211	1.00	36.21	A C
ATOM	896	CD1	LEU	A	129	-25.824	1.984	17.883	1.00	38.62	A C
ATOM	897	CD2	LEU	A	129	-24.424	0.964	19.661	1.00	33.22	A C
ATOM	898	C	LEU	A	129	-23.258	-1.871	16.483	1.00	25.34	A C
ATOM	899	O	LEU	A	129	-23.768	-2.904	16.895	1.00	23.41	A O
ATOM	900	N	GLU	A	130	-22.883	-1.712	15.221	1.00	22.57	A N
ATOM	901	CA	GLU	A	130	-23.161	-2.751	14.231	1.00	23.63	A C
ATOM	902	CB	GLU	A	130	-23.790	-2.113	12.963	1.00	26.59	A C
ATOM	903	CG	GLU	A	130	-24.727	-0.948	13.169	1.00	34.00	A C
ATOM	904	CD	GLU	A	130	-24.698	0.061	11.991	1.00	39.35	A C
ATOM	905	OE1	GLU	A	130	-25.744	0.234	11.332	1.00	37.35	A O
ATOM	906	OE2	GLU	A	130	-23.630	0.670	11.726	1.00	43.82	A O
ATOM	907	C	GLU	A	130	-22.001	-3.594	13.752	1.00	23.16	A C
ATOM	908	O	GLU	A	130	-22.214	-4.512	12.948	1.00	20.31	A O
ATOM	909	N	CYS	A	131	-20.784	-3.315	14.218	1.00	23.46	A N
ATOM	910	CA	CYS	A	131	-19.623	-4.041	13.719	1.00	24.40	A C
ATOM	911	CB	CYS	A	131	-19.070	-3.243	12.516	1.00	23.60	A C
ATOM	912	SG	CYS	A	131	-17.375	-3.635	11.991	1.00	23.80	A S
ATOM	913	C	CYS	A	131	-18.551	-4.286	14.788	1.00	25.20	A C
ATOM	914	O	CYS	A	131	-18.135	-3.354	15.495	1.00	27.24	A O
ATOM	915	N	GLY	A	132	-18.115	-5.550	14.894	1.00	26.23	A N
ATOM	916	CA	GLY	A	132	-17.124	-5.951	15.879	1.00	23.26	A C
ATOM	917	C	GLY	A	132	-15.738	-5.329	15.865	1.00	22.87	A C
ATOM	918	O	GLY	A	132	-15.025	-5.509	16.844	1.00	20.83	A O
ATOM	919	N	ASN	A	133	-15.341	-4.630	14.784	1.00	21.83	A N
ATOM	920	CA	ASN	A	133	-14.020	-4.004	14.669	1.00	21.38	A C
ATOM	921	CB	ASN	A	133	-13.011	-5.002	14.098	1.00	21.14	A C
ATOM	922	CG	ASN	A	133	-11.572	-4.559	14.315	1.00	28.08	A C
ATOM	923	OD1	ASN	A	133	-11.340	-3.542	14.958	1.00	27.57	A O
ATOM	924	ND2	ASN	A	133	-10.603	-5.309	13.789	1.00	26.31	A N
ATOM	925	C	ASN	A	133	-14.214	-2.829	13.692	1.00	22.08	A C
ATOM	926	O	ASN	A	133	-13.528	-2.744	12.690	1.00	20.51	A O
ATOM	927	N	TYR	A	134	-15.127	-1.906	14.030	1.00	23.19	A N
ATOM	928	CA	TYR	A	134	-15.522	-0.806	13.142	1.00	24.23	A C
ATOM	929	CB	TYR	A	134	-16.692	-0.037	13.784	1.00	25.59	A C
ATOM	930	CG	TYR	A	134	-16.260	1.154	14.605	1.00	29.76	A C
ATOM	931	CD1	TYR	A	134	-16.264	2.447	14.054	1.00	32.69	A C
ATOM	932	CE1	TYR	A	134	-15.793	3.558	14.793	1.00	35.50	A C

Table 9

ATOM	933	CD2	TYR	A	134	-15.781	0.989	15.902	1.00	31.71	A	C
ATOM	934	CE2	TYR	A	134	-15.299	2.084	16.650	1.00	36.42	A	C
ATOM	935	CZ	TYR	A	134	-15.311	3.366	16.093	1.00	39.64	A	C
ATOM	936	OH	TYR	A	134	-14.862	4.440	16.853	1.00	43.46	A	O
ATOM	937	C	TYR	A	134	-14.433	0.157	12.613	1.00	25.79	A	C
ATOM	938	O	TYR	A	134	-14.600	0.767	11.548	1.00	25.13	A	O
ATOM	939	N	ARG	A	135	-13.314	0.282	13.300	1.00	27.68	A	N
ATOM	940	CA	ARG	A	135	-12.264	1.146	12.781	1.00	30.82	A	C
ATOM	941	CB	ARG	A	135	-11.324	1.584	13.906	1.00	38.72	A	C
ATOM	942	CG	ARG	A	135	-11.963	2.379	15.029	1.00	46.64	A	C
ATOM	943	CD	ARG	A	135	-11.169	2.201	16.335	1.00	49.73	A	C
ATOM	944	NE	ARG	A	135	-11.683	3.049	17.414	1.00	57.79	A	N
ATOM	945	CZ	ARG	A	135	-11.632	2.738	18.709	1.00	59.23	A	C
ATOM	946	NH1	ARG	A	135	-11.089	1.587	19.097	1.00	60.86	A	N
ATOM	947	NH2	ARG	A	135	-12.125	3.575	19.616	1.00	58.23	A	N
ATOM	948	C	ARG	A	135	-11.423	0.402	11.715	1.00	29.97	A	C
ATOM	949	O	ARG	A	135	-10.702	1.036	10.957	1.00	28.73	A	O
ATOM	950	N	ASP	A	136	-11.530	-0.925	11.630	1.00	25.24	A	N
ATOM	951	CA	ASP	A	136	-10.696	-1.680	10.682	1.00	22.79	A	C
ATOM	952	CB	ASP	A	136	-10.313	-3.045	11.286	1.00	26.92	A	C
ATOM	953	CG	ASP	A	136	-9.108	-3.679	10.597	1.00	31.36	A	C
ATOM	954	OD1	ASP	A	136	-8.111	-2.967	10.361	1.00	33.11	A	O
ATOM	955	OD2	ASP	A	136	-9.132	-4.899	10.300	1.00	32.82	A	O
ATOM	956	C	ASP	A	136	-11.313	-1.877	9.287	1.00	19.79	A	C
ATOM	957	O	ASP	A	136	-11.633	-2.997	8.871	1.00	17.43	A	O
ATOM	958	N	HIS	A	137	-11.460	-0.758	8.577	1.00	17.46	A	N
ATOM	959	CA	HIS	A	137	-12.022	-0.740	7.230	1.00	17.37	A	C
ATOM	960	CB	HIS	A	137	-13.442	-0.122	7.270	1.00	16.38	A	C
ATOM	961	CG	HIS	A	137	-14.500	-1.079	7.726	1.00	13.89	A	C
ATOM	962	CD2	HIS	A	137	-15.137	-1.204	8.920	1.00	13.85	A	C
ATOM	963	ND1	HIS	A	137	-14.948	-2.125	6.942	1.00	13.75	A	N
ATOM	964	CE1	HIS	A	137	-15.795	-2.865	7.643	1.00	10.73	A	C
ATOM	965	NE2	HIS	A	137	-15.921	-2.328	8.847	1.00	12.95	A	N
ATOM	966	C	HIS	A	137	-11.143	0.029	6.248	1.00	17.83	A	C
ATOM	967	O	HIS	A	137	-10.339	0.918	6.638	1.00	13.25	A	O
ATOM	968	N	ASP	A	138	-11.270	-0.322	4.979	1.00	15.17	A	N
ATOM	969	CA	ASP	A	138	-10.509	0.380	3.954	1.00	16.15	A	C
ATOM	970	CB	ASP	A	138	-9.079	-0.131	3.874	1.00	16.83	A	C
ATOM	971	CG	ASP	A	138	-8.222	0.683	2.908	1.00	22.33	A	C
ATOM	972	OD1	ASP	A	138	-8.751	1.471	2.087	1.00	16.74	A	O
ATOM	973	OD2	ASP	A	138	-7.000	0.515	2.957	1.00	24.72	A	O
ATOM	974	C	ASP	A	138	-11.218	0.255	2.616	1.00	14.84	A	C
ATOM	975	O	ASP	A	138	-10.891	-0.595	1.760	1.00	13.46	A	O
ATOM	976	N	LEU	A	139	-12.199	1.138	2.460	1.00	14.02	A	N
ATOM	977	CA	LEU	A	139	-13.029	1.206	1.264	1.00	12.48	A	C
ATOM	978	CB	LEU	A	139	-14.120	2.306	1.450	1.00	10.44	A	C
ATOM	979	CG	LEU	A	139	-15.074	2.487	0.264	1.00	12.25	A	C
ATOM	980	CD1	LEU	A	139	-15.669	1.142	-0.016	1.00	8.34	A	C
ATOM	981	CD2	LEU	A	139	-16.212	3.583	0.565	1.00	8.50	A	C
ATOM	982	C	LEU	A	139	-12.225	1.487	-0.012	1.00	11.42	A	C
ATOM	983	O	LEU	A	139	-12.464	0.895	-1.041	1.00	11.37	A	O
ATOM	984	N	ALA	A	140	-11.286	2.412	0.049	1.00	10.98	A	N
ATOM	985	CA	ALA	A	140	-10.492	2.732	-1.121	1.00	11.03	A	C
ATOM	986	CB	ALA	A	140	-9.430	3.806	-0.721	1.00	11.36	A	C
ATOM	987	C	ALA	A	140	-9.802	1.449	-1.634	1.00	11.87	A	C
ATOM	988	O	ALA	A	140	-9.790	1.113	-2.856	1.00	12.73	A	O
ATOM	989	N	ALA	A	141	-9.182	0.722	-0.721	1.00	13.09	A	N

Table 9

ATOM	990	CA	ALA	A	141	-8.508	-0.508	-1.141	1.00	11.32	A	C
ATOM	991	CB	ALA	A	141	-7.584	-0.999	-0.016	1.00	15.98	A	C
ATOM	992	C	ALA	A	141	-9.512	-1.620	-1.594	1.00	11.71	A	C
ATOM	993	O	ALA	A	141	-9.211	-2.380	-2.541	1.00	11.83	A	O
ATOM	994	N	ALA	A	142	-10.676	-1.732	-0.952	1.00	13.49	A	N
ATOM	995	CA	ALA	A	142	-11.665	-2.758	-1.357	1.00	10.79	A	C
ATOM	996	CB	ALA	A	142	-12.849	-2.767	-0.407	1.00	9.27	A	C
ATOM	997	C	ALA	A	142	-12.155	-2.403	-2.763	1.00	12.91	A	C
ATOM	998	O	ALA	A	142	-12.285	-3.261	-3.611	1.00	12.47	A	O
ATOM	999	N	ARG	A	143	-12.444	-1.122	-3.022	1.00	10.23	A	N
ATOM	1000	CA	ARG	A	143	-12.921	-0.775	-4.364	1.00	11.71	A	C
ATOM	1001	CB	ARG	A	143	-13.322	0.743	-4.491	1.00	9.32	A	C
ATOM	1002	CG	ARG	A	143	-14.420	1.164	-3.575	1.00	9.18	A	C
ATOM	1003	CD	ARG	A	143	-14.592	2.709	-3.601	1.00	13.28	A	C
ATOM	1004	NE	ARG	A	143	-14.959	3.154	-4.941	1.00	11.89	A	N
ATOM	1005	CZ	ARG	A	143	-15.177	4.427	-5.258	1.00	15.77	A	C
ATOM	1006	NH1	ARG	A	143	-15.032	5.363	-4.339	1.00	16.00	A	N
ATOM	1007	NH2	ARG	A	143	-15.646	4.734	-6.446	1.00	16.75	A	N
ATOM	1008	C	ARG	A	143	-11.851	-1.069	-5.410	1.00	13.63	A	C
ATOM	1009	O	ARG	A	143	-12.181	-1.557	-6.516	1.00	12.00	A	O
ATOM	1010	N	GLN	A	144	-10.579	-0.793	-5.094	1.00	13.76	A	N
ATOM	1011	CA	GLN	A	144	-9.556	-1.063	-6.071	1.00	13.58	A	C
ATOM	1012	CB	GLN	A	144	-8.183	-0.504	-5.655	1.00	16.15	A	C
ATOM	1013	CG	GLN	A	144	-7.159	-0.668	-6.793	1.00	18.39	A	C
ATOM	1014	CD	GLN	A	144	-7.630	-0.016	-8.106	1.00	20.58	A	C
ATOM	1015	OE1	GLN	A	144	-8.119	1.129	-8.114	1.00	22.62	A	O
ATOM	1016	NE2	GLN	A	144	-7.496	-0.734	-9.210	1.00	22.11	A	N
ATOM	1017	C	GLN	A	144	-9.429	-2.574	-6.309	1.00	12.19	A	C
ATOM	1018	O	GLN	A	144	-9.174	-3.005	-7.434	1.00	11.64	A	O
ATOM	1019	N	HIS	A	145	-9.584	-3.391	-5.255	1.00	9.95	A	N
ATOM	1020	CA	HIS	A	145	-9.494	-4.849	-5.487	1.00	11.11	A	C
ATOM	1021	CB	HIS	A	145	-9.531	-5.668	-4.173	1.00	11.74	A	C
ATOM	1022	CG	HIS	A	145	-8.223	-5.686	-3.443	1.00	12.50	A	C
ATOM	1023	CD2	HIS	A	145	-7.848	-5.130	-2.262	1.00	14.96	A	C
ATOM	1024	ND1	HIS	A	145	-7.100	-6.326	-3.935	1.00	16.74	A	N
ATOM	1025	CE1	HIS	A	145	-6.090	-6.153	-3.098	1.00	12.43	A	C
ATOM	1026	NE2	HIS	A	145	-6.514	-5.426	-2.080	1.00	18.90	A	N
ATOM	1027	C	HIS	A	145	-10.594	-5.310	-6.398	1.00	11.23	A	C
ATOM	1028	O	HIS	A	145	-10.370	-6.236	-7.186	1.00	14.23	A	O
ATOM	1029	N	ALA	A	146	-11.789	-4.727	-6.254	1.00	10.83	A	N
ATOM	1030	CA	ALA	A	146	-12.905	-5.106	-7.105	1.00	15.09	A	C
ATOM	1031	CB	ALA	A	146	-14.199	-4.424	-6.648	1.00	12.13	A	C
ATOM	1032	C	ALA	A	146	-12.591	-4.712	-8.563	1.00	15.10	A	C
ATOM	1033	O	ALA	A	146	-12.890	-5.491	-9.511	1.00	12.18	A	O
ATOM	1034	N	ARG	A	147	-12.019	-3.503	-8.719	1.00	13.32	A	N
ATOM	1035	CA	ARG	A	147	-11.644	-3.004	-10.024	1.00	15.25	A	C
ATOM	1036	CB	ARG	A	147	-11.059	-1.579	-9.920	1.00	15.79	A	C
ATOM	1037	CG	ARG	A	147	-10.643	-1.018	-11.239	1.00	24.98	A	C
ATOM	1038	CD	ARG	A	147	-11.761	-1.227	-12.264	1.00	29.68	A	C
ATOM	1039	NE	ARG	A	147	-13.051	-0.620	-11.886	1.00	31.25	A	N
ATOM	1040	CZ	ARG	A	147	-14.164	-0.768	-12.603	1.00	32.55	A	C
ATOM	1041	NH1	ARG	A	147	-14.138	-1.494	-13.723	1.00	41.51	A	N
ATOM	1042	NH2	ARG	A	147	-15.312	-0.232	-12.203	1.00	38.48	A	N
ATOM	1043	C	ARG	A	147	-10.625	-3.914	-10.663	1.00	13.87	A	C
ATOM	1044	O	ARG	A	147	-10.710	-4.175	-11.869	1.00	13.49	A	O
ATOM	1045	N	ASP	A	148	-9.645	-4.376	-9.876	1.00	13.10	A	N
ATOM	1046	CA	ASP	A	148	-8.610	-5.295	-10.384	1.00	14.36	A	C

Table 9

ATOM	1047	CB	ASP	A	148	-7.556	-5.572	-9.314	1.00	15.51	A	C
ATOM	1048	CG	ASP	A	148	-6.713	-4.321	-8.964	1.00	24.84	A	C
ATOM	1049	OD1	ASP	A	148	-6.735	-3.309	-9.731	1.00	24.56	A	O
ATOM	1050	OD2	ASP	A	148	-6.025	-4.375	-7.910	1.00	30.72	A	O
ATOM	1051	C	ASP	A	148	-9.159	-6.627	-10.905	1.00	15.34	A	C
ATOM	1052	O	ASP	A	148	-8.697	-7.125	-11.958	1.00	13.95	A	O
ATOM	1053	N	VAL	A	149	-10.125	-7.204	-10.183	1.00	12.07	A	N
ATOM	1054	CA	VAL	A	149	-10.716	-8.446	-10.625	1.00	13.64	A	C
ATOM	1055	CB	VAL	A	149	-11.712	-8.972	-9.591	1.00	12.12	A	C
ATOM	1056	CG1	VAL	A	149	-12.586	-10.088	-10.159	1.00	10.75	A	C
ATOM	1057	CG2	VAL	A	149	-10.908	-9.460	-8.391	1.00	11.18	A	C
ATOM	1058	C	VAL	A	149	-11.404	-8.219	-11.965	1.00	14.21	A	C
ATOM	1059	O	VAL	A	149	-11.213	-8.994	-12.899	1.00	14.01	A	O
ATOM	1060	N	LEU	A	150	-12.149	-7.132	-12.066	1.00	14.14	A	N
ATOM	1061	CA	LEU	A	150	-12.875	-6.831	-13.287	1.00	15.04	A	C
ATOM	1062	CB	LEU	A	150	-13.845	-5.665	-13.058	1.00	16.22	A	C
ATOM	1063	CG	LEU	A	150	-14.969	-5.979	-12.057	1.00	15.25	A	C
ATOM	1064	CD1	LEU	A	150	-15.590	-4.614	-11.642	1.00	20.31	A	C
ATOM	1065	CD2	LEU	A	150	-16.039	-6.923	-12.648	1.00	16.85	A	C
ATOM	1066	C	LEU	A	150	-11.870	-6.519	-14.420	1.00	17.73	A	C
ATOM	1067	O	LEU	A	150	-12.088	-6.929	-15.559	1.00	14.91	A	O
ATOM	1068	N	ASP	A	151	-10.763	-5.846	-14.105	1.00	14.40	A	N
ATOM	1069	CA	ASP	A	151	-9.762	-5.565	-15.146	1.00	17.58	A	C
ATOM	1070	CB	ASP	A	151	-8.587	-4.707	-14.626	1.00	17.17	A	C
ATOM	1071	CG	ASP	A	151	-8.996	-3.260	-14.339	1.00	22.70	A	C
ATOM	1072	OD1	ASP	A	151	-9.913	-2.765	-15.041	1.00	25.27	A	O
ATOM	1073	OD2	ASP	A	151	-8.381	-2.620	-13.445	1.00	26.47	A	O
ATOM	1074	C	ASP	A	151	-9.169	-6.861	-15.686	1.00	14.97	A	C
ATOM	1075	O	ASP	A	151	-8.950	-6.971	-16.896	1.00	13.85	A	O
ATOM	1076	N	GLN	A	152	-8.893	-7.810	-14.792	1.00	15.26	A	N
ATOM	1077	CA	GLN	A	152	-8.296	-9.096	-15.182	1.00	17.95	A	C
ATOM	1078	CB	GLN	A	152	-7.673	-9.818	-13.944	1.00	15.99	A	C
ATOM	1079	CG	GLN	A	152	-6.606	-8.963	-13.336	1.00	24.43	A	C
ATOM	1080	CD	GLN	A	152	-6.181	-9.401	-11.923	1.00	28.18	A	C
ATOM	1081	OE1	GLN	A	152	-6.232	-10.577	-11.586	1.00	37.74	A	O
ATOM	1082	NE2	GLN	A	152	-5.732	-8.449	-11.121	1.00	38.17	A	N
ATOM	1083	C	GLN	A	152	-9.323	-10.022	-15.834	1.00	16.48	A	C
ATOM	1084	O	GLN	A	152	-8.954	-10.800	-16.690	1.00	18.19	A	O
ATOM	1085	N	GLY	A	153	-10.580	-9.945	-15.405	1.00	14.13	A	N
ATOM	1086	CA	GLY	A	153	-11.597	-10.783	-15.996	1.00	14.76	A	C
ATOM	1087	C	GLY	A	153	-11.803	-12.120	-15.283	1.00	15.16	A	C
ATOM	1088	O	GLY	A	153	-10.868	-12.890	-15.087	1.00	17.50	A	O
ATOM	1089	N	LEU	A	154	-13.052	-12.387	-14.914	1.00	13.96	A	N
ATOM	1090	CA	LEU	A	154	-13.391	-13.630	-14.222	1.00	14.33	A	C
ATOM	1091	CB	LEU	A	154	-14.670	-13.427	-13.456	1.00	12.30	A	C
ATOM	1092	CG	LEU	A	154	-14.644	-12.629	-12.164	1.00	14.42	A	C
ATOM	1093	CD1	LEU	A	154	-16.140	-12.348	-11.755	1.00	15.20	A	C
ATOM	1094	CD2	LEU	A	154	-13.928	-13.449	-11.112	1.00	12.69	A	C
ATOM	1095	C	LEU	A	154	-13.618	-14.763	-15.197	1.00	14.74	A	C
ATOM	1096	O	LEU	A	154	-13.796	-14.524	-16.418	1.00	16.44	A	O
ATOM	1097	N	LYS	A	155	-13.562	-15.998	-14.695	1.00	12.86	A	N
ATOM	1098	CA	LYS	A	155	-13.914	-17.175	-15.499	1.00	12.90	A	C
ATOM	1099	CB	LYS	A	155	-12.781	-17.667	-16.412	1.00	15.53	A	C
ATOM	1100	CG	LYS	A	155	-11.741	-18.560	-15.751	1.00	21.27	A	C
ATOM	1101	CD	LYS	A	155	-10.912	-17.783	-14.773	1.00	22.61	A	C
ATOM	1102	CE	LYS	A	155	-10.031	-16.807	-15.484	1.00	17.44	A	C
ATOM	1103	NZ	LYS	A	155	-8.854	-16.339	-14.607	1.00	17.87	A	N

Table 9

ATOM	1104	C	LYS	A	155	-14.287	-18.252	-14.466	1.00	14.91	A	C
ATOM	1105	O	LYS	A	155	-14.060	-18.065	-13.260	1.00	15.17	A	O
ATOM	1106	N	VAL	A	156	-14.927	-19.322	-14.928	1.00	15.26	A	N
ATOM	1107	CA	VAL	A	156	-15.295	-20.414	-14.068	1.00	14.24	A	C
ATOM	1108	CB	VAL	A	156	-16.507	-21.136	-14.613	1.00	17.44	A	C
ATOM	1109	CG1	VAL	A	156	-16.751	-22.415	-13.777	1.00	16.59	A	C
ATOM	1110	CG2	VAL	A	156	-17.739	-20.196	-14.525	1.00	12.52	A	C
ATOM	1111	C	VAL	A	156	-14.109	-21.336	-14.038	1.00	15.12	A	C
ATOM	1112	O	VAL	A	156	-13.691	-21.801	-15.062	1.00	15.66	A	O
ATOM	1113	N	GLN	A	157	-13.578	-21.605	-12.847	1.00	15.09	A	N
ATOM	1114	CA	GLN	A	157	-12.400	-22.450	-12.645	1.00	12.33	A	C
ATOM	1115	CB	GLN	A	157	-11.604	-21.871	-11.459	1.00	13.89	A	C
ATOM	1116	CG	GLN	A	157	-10.522	-22.783	-10.955	1.00	13.32	A	C
ATOM	1117	CD	GLN	A	157	-9.365	-22.829	-11.899	1.00	12.87	A	C
ATOM	1118	OE1	GLN	A	157	-8.780	-21.793	-12.243	1.00	15.24	A	O
ATOM	1119	NE2	GLN	A	157	-9.024	-24.006	-12.340	1.00	11.91	A	N
ATOM	1120	C	GLN	A	157	-12.749	-23.906	-12.333	1.00	15.30	A	C
ATOM	1121	O	GLN	A	157	-13.554	-24.160	-11.459	1.00	13.51	A	O
ATOM	1122	N	GLU	A	158	-12.154	-24.873	-13.016	1.00	17.09	A	N
ATOM	1123	CA	GLU	A	158	-12.495	-26.262	-12.678	1.00	23.25	A	C
ATOM	1124	CB	GLU	A	158	-12.176	-27.209	-13.844	1.00	31.20	A	C
ATOM	1125	CG	GLU	A	158	-11.180	-26.646	-14.867	1.00	42.00	A	C
ATOM	1126	CD	GLU	A	158	-10.653	-27.706	-15.851	1.00	49.81	A	C
ATOM	1127	OE1	GLU	A	158	-11.445	-28.176	-16.701	1.00	52.97	A	O
ATOM	1128	OE2	GLU	A	158	-9.447	-28.071	-15.764	1.00	50.72	A	O
ATOM	1129	C	GLU	A	158	-11.722	-26.665	-11.427	1.00	23.48	A	C
ATOM	1130	O	GLU	A	158	-10.651	-26.127	-11.175	1.00	20.73	A	O
ATOM	1131	N	THR	A	159	-12.295	-27.545	-10.603	1.00	21.97	A	N
ATOM	1132	CA	THR	A	159	-11.592	-28.004	-9.427	1.00	22.60	A	C
ATOM	1133	CB	THR	A	159	-12.553	-28.602	-8.371	1.00	24.73	A	C
ATOM	1134	OG1	THR	A	159	-13.337	-27.557	-7.779	1.00	23.37	A	O
ATOM	1135	CG2	THR	A	159	-11.769	-29.301	-7.277	1.00	26.99	A	C
ATOM	1136	C	THR	A	159	-10.577	-29.074	-9.864	1.00	24.07	A	C
ATOM	1137	O	THR	A	159	-10.903	-30.041	-10.560	1.00	23.06	A	O
ATOM	1138	N	ILE	A	160	-9.332	-28.862	-9.497	1.00	23.79	A	N
ATOM	1139	CA	ILE	A	160	-8.246	-29.795	-9.820	1.00	26.26	A	C
ATOM	1140	CB	ILE	A	160	-7.055	-28.997	-10.408	1.00	26.13	A	C
ATOM	1141	CG2	ILE	A	160	-5.874	-29.917	-10.708	1.00	30.59	A	C
ATOM	1142	CG1	ILE	A	160	-7.520	-28.195	-11.627	1.00	28.94	A	C
ATOM	1143	CD1	ILE	A	160	-7.992	-29.017	-12.753	1.00	37.54	A	C
ATOM	1144	C	ILE	A	160	-7.873	-30.347	-8.437	1.00	26.18	A	C
ATOM	1145	O	ILE	A	160	-7.441	-29.581	-7.565	1.00	23.54	A	O
ATOM	1146	N	LEU	A	161	-8.068	-31.634	-8.202	1.00	29.67	A	N
ATOM	1147	CA	LEU	A	161	-7.737	-32.195	-6.900	1.00	39.36	A	C
ATOM	1148	CB	LEU	A	161	-8.688	-33.360	-6.582	1.00	44.78	A	C
ATOM	1149	CG	LEU	A	161	-10.020	-33.048	-5.860	1.00	50.79	A	C
ATOM	1150	CD1	LEU	A	161	-9.999	-33.721	-4.490	1.00	51.64	A	C
ATOM	1151	CD2	LEU	A	161	-10.224	-31.544	-5.663	1.00	51.63	A	C
ATOM	1152	C	LEU	A	161	-6.284	-32.624	-6.636	1.00	41.05	A	C
ATOM	1153	O	LEU	A	161	-5.505	-32.859	-7.555	1.00	46.26	A	O
ATOM	1154	N	LEU	A	162	-5.972	-32.691	-5.340	1.00	41.73	A	N
ATOM	1155	CA	LEU	A	162	-4.704	-33.090	-4.729	1.00	46.29	A	C
ATOM	1156	CB	LEU	A	162	-3.982	-34.123	-5.596	1.00	44.58	A	C
ATOM	1157	CG	LEU	A	162	-4.729	-35.456	-5.651	1.00	51.84	A	C
ATOM	1158	CD1	LEU	A	162	-4.014	-36.433	-6.589	1.00	51.61	A	C
ATOM	1159	CD2	LEU	A	162	-4.828	-36.027	-4.262	1.00	52.36	A	C
ATOM	1160	C	LEU	A	162	-3.765	-31.948	-4.346	1.00	48.74	A	C

Table 9

ATOM	1161	O	LEU	A	162	-4.045	-31.280	-3.325	1.00	55.07	A O
ATOM	1162	OXT	LEU	A	162	-2.760	-31.714	-5.046	1.00	52.50	A O
TER	1163		LEU	A	162						A
ATOM	1164	CB	GLU	B	8	-32.928	-13.990	8.835	1.00	27.77	B C
ATOM	1165	CG	GLU	B	8	-33.372	-14.752	10.044	1.00	31.60	B C
ATOM	1166	CD	GLU	B	8	-34.661	-14.148	10.482	1.00	36.31	B C
ATOM	1167	OE1	GLU	B	8	-35.508	-14.883	11.045	1.00	41.24	B O
ATOM	1168	OE2	GLU	B	8	-34.800	-12.916	10.220	1.00	36.00	B O
ATOM	1169	C	GLU	B	8	-30.481	-13.982	8.873	1.00	30.66	B C
ATOM	1170	O	GLU	B	8	-29.482	-14.699	9.001	1.00	26.90	B O
ATOM	1171	N	GLU	B	8	-31.681	-15.962	7.995	1.00	40.88	B N
ATOM	1172	CA	GLU	B	8	-31.676	-14.486	8.130	1.00	32.60	B C
ATOM	1173	N	SER	B	9	-30.605	-12.760	9.395	1.00	28.43	B N
ATOM	1174	CA	SER	B	9	-29.502	-12.094	10.101	1.00	30.27	B C
ATOM	1175	CB	SER	B	9	-28.621	-11.339	9.081	1.00	32.63	B C
ATOM	1176	OG	SER	B	9	-27.542	-10.642	9.713	1.00	34.60	B O
ATOM	1177	C	SER	B	9	-30.018	-11.099	11.149	1.00	30.56	B C
ATOM	1178	O	SER	B	9	-30.372	-9.950	10.819	1.00	26.92	B O
ATOM	1179	N	PHE	B	10	-30.065	-11.553	12.399	1.00	30.35	B N
ATOM	1180	CA	PHE	B	10	-30.543	-10.746	13.521	1.00	32.11	B C
ATOM	1181	CB	PHE	B	10	-30.439	-11.549	14.824	1.00	31.00	B C
ATOM	1182	CG	PHE	B	10	-31.094	-12.929	14.767	1.00	30.62	B C
ATOM	1183	CD1	PHE	B	10	-30.590	-13.997	15.541	1.00	27.30	B C
ATOM	1184	CD2	PHE	B	10	-32.232	-13.151	14.000	1.00	32.94	B C
ATOM	1185	CE1	PHE	B	10	-31.232	-15.264	15.547	1.00	28.15	B C
ATOM	1186	CE2	PHE	B	10	-32.877	-14.413	13.996	1.00	35.01	B C
ATOM	1187	CZ	PHE	B	10	-32.377	-15.464	14.772	1.00	32.53	B C
ATOM	1188	C	PHE	B	10	-29.681	-9.500	13.621	1.00	35.53	B C
ATOM	1189	O	PHE	B	10	-28.453	-9.574	13.489	1.00	31.00	B O
ATOM	1190	N	ASP	B	11	-30.335	-8.359	13.860	1.00	41.20	B N
ATOM	1191	CA	ASP	B	11	-29.667	-7.050	13.957	1.00	46.41	B C
ATOM	1192	CB	ASP	B	11	-30.645	-5.925	13.609	1.00	53.99	B C
ATOM	1193	CG	ASP	B	11	-30.026	-4.559	13.780	1.00	62.85	B C
ATOM	1194	OD1	ASP	B	11	-29.035	-4.272	13.076	1.00	65.63	B O
ATOM	1195	OD2	ASP	B	11	-30.521	-3.777	14.626	1.00	68.39	B O
ATOM	1196	C	ASP	B	11	-29.095	-6.832	15.362	1.00	44.92	B C
ATOM	1197	O	ASP	B	11	-29.733	-6.214	16.225	1.00	46.86	B O
ATOM	1198	N	LEU	B	12	-27.870	-7.330	15.551	1.00	38.99	B N
ATOM	1199	CA	LEU	B	12	-27.155	-7.310	16.834	1.00	30.60	B C
ATOM	1200	CB	LEU	B	12	-26.081	-8.395	16.803	1.00	27.26	B C
ATOM	1201	CG	LEU	B	12	-25.610	-9.162	18.042	1.00	26.44	B C
ATOM	1202	CD1	LEU	B	12	-24.123	-9.114	18.108	1.00	25.12	B C
ATOM	1203	CD2	LEU	B	12	-26.233	-8.684	19.265	1.00	25.07	B C
ATOM	1204	C	LEU	B	12	-26.474	-6.020	17.267	1.00	27.31	B C
ATOM	1205	O	LEU	B	12	-25.723	-5.423	16.494	1.00	25.91	B O
ATOM	1206	N	ASP	B	13	-26.712	-5.652	18.534	1.00	24.49	B N
ATOM	1207	CA	ASP	B	13	-26.092	-4.494	19.186	1.00	22.19	B C
ATOM	1208	CB	ASP	B	13	-26.958	-3.975	20.349	1.00	22.99	B C
ATOM	1209	CG	ASP	B	13	-26.379	-2.707	20.988	1.00	23.39	B C
ATOM	1210	OD1	ASP	B	13	-25.134	-2.503	20.909	1.00	21.51	B O
ATOM	1211	OD2	ASP	B	13	-27.166	-1.905	21.567	1.00	26.21	B O
ATOM	1212	C	ASP	B	13	-24.780	-5.023	19.754	1.00	20.80	B C
ATOM	1213	O	ASP	B	13	-24.777	-5.700	20.784	1.00	19.07	B O
ATOM	1214	N	HIS	B	14	-23.661	-4.738	19.100	1.00	18.67	B N
ATOM	1215	CA	HIS	B	14	-22.386	-5.267	19.591	1.00	22.35	B C
ATOM	1216	CB	HIS	B	14	-21.282	-5.106	18.544	1.00	18.92	B C
ATOM	1217	CG	HIS	B	14	-21.573	-5.816	17.258	1.00	18.05	B C

Table 9

ATOM	1218	CD2	HIS	B	14	-22.652	-5.780	16.439	1.00	16.39	B	C
ATOM	1219	ND1	HIS	B	14	-20.673	-6.677	16.670	1.00	21.08	B	N
ATOM	1220	CE1	HIS	B	14	-21.181	-7.141	15.539	1.00	22.39	B	C
ATOM	1221	NE2	HIS	B	14	-22.382	-6.613	15.378	1.00	24.83	B	N
ATOM	1222	C	HIS	B	14	-21.866	-4.717	20.909	1.00	23.15	B	C
ATOM	1223	O	HIS	B	14	-20.921	-5.265	21.467	1.00	23.62	B	O
ATOM	1224	N	THR	B	15	-22.429	-3.618	21.393	1.00	24.10	B	N
ATOM	1225	CA	THR	B	15	-21.947	-3.097	22.671	1.00	24.28	B	C
ATOM	1226	CB	THR	B	15	-22.190	-1.570	22.804	1.00	26.80	B	C
ATOM	1227	OG1	THR	B	15	-23.592	-1.340	22.966	1.00	19.33	B	O
ATOM	1228	CG2	THR	B	15	-21.668	-0.824	21.543	1.00	20.50	B	C
ATOM	1229	C	THR	B	15	-22.650	-3.775	23.858	1.00	25.18	B	C
ATOM	1230	O	THR	B	15	-22.328	-3.485	24.992	1.00	25.44	B	O
ATOM	1231	N	LYS	B	16	-23.564	-4.699	23.605	1.00	22.38	B	N
ATOM	1232	CA	LYS	B	16	-24.309	-5.301	24.713	1.00	24.05	B	C
ATOM	1233	CB	LYS	B	16	-25.790	-5.140	24.461	1.00	25.87	B	C
ATOM	1234	CG	LYS	B	16	-26.199	-3.728	24.062	1.00	38.25	B	C
ATOM	1235	CD	LYS	B	16	-27.027	-3.077	25.160	1.00	42.68	B	C
ATOM	1236	CE	LYS	B	16	-28.317	-3.887	25.414	1.00	48.93	B	C
ATOM	1237	NZ	LYS	B	16	-29.115	-3.457	26.627	1.00	51.57	B	N
ATOM	1238	C	LYS	B	16	-24.022	-6.783	24.986	1.00	20.25	B	C
ATOM	1239	O	LYS	B	16	-24.471	-7.326	25.994	1.00	17.44	B	O
ATOM	1240	N	VAL	B	17	-23.296	-7.424	24.080	1.00	17.15	B	N
ATOM	1241	CA	VAL	B	17	-22.970	-8.842	24.247	1.00	15.36	B	C
ATOM	1242	CB	VAL	B	17	-22.583	-9.480	22.945	1.00	16.40	B	C
ATOM	1243	CG1	VAL	B	17	-23.765	-9.419	22.001	1.00	16.31	B	C
ATOM	1244	CG2	VAL	B	17	-21.349	-8.790	22.370	1.00	17.18	B	C
ATOM	1245	C	VAL	B	17	-21.841	-8.963	25.209	1.00	15.35	B	C
ATOM	1246	O	VAL	B	17	-21.199	-7.962	25.528	1.00	15.59	B	O
ATOM	1247	N	LYS	B	18	-21.577	-10.192	25.652	1.00	12.93	B	N
ATOM	1248	CA	LYS	B	18	-20.540	-10.455	26.650	1.00	14.59	B	C
ATOM	1249	CB	LYS	B	18	-21.253	-10.879	27.955	1.00	13.54	B	C
ATOM	1250	CG	LYS	B	18	-22.361	-9.888	28.423	1.00	15.02	B	C
ATOM	1251	CD	LYS	B	18	-21.757	-8.541	28.780	1.00	17.22	B	C
ATOM	1252	CE	LYS	B	18	-22.803	-7.497	29.352	1.00	20.42	B	C
ATOM	1253	NZ	LYS	B	18	-21.997	-6.222	29.535	1.00	18.88	B	N
ATOM	1254	C	LYS	B	18	-19.682	-11.610	26.127	1.00	16.48	B	C
ATOM	1255	O	LYS	B	18	-20.076	-12.775	26.249	1.00	16.71	B	O
ATOM	1256	N	ALA	B	19	-18.551	-11.306	25.502	1.00	15.37	B	N
ATOM	1257	CA	ALA	B	19	-17.662	-12.349	24.941	1.00	14.84	B	C
ATOM	1258	CB	ALA	B	19	-16.623	-11.663	23.949	1.00	10.94	B	C
ATOM	1259	C	ALA	B	19	-16.946	-13.115	26.052	1.00	13.71	B	C
ATOM	1260	O	ALA	B	19	-16.743	-12.569	27.138	1.00	12.63	B	O
ATOM	1261	N	PRO	B	20	-16.579	-14.398	25.832	1.00	15.35	B	N
ATOM	1262	CD	PRO	B	20	-15.588	-14.948	26.786	1.00	14.92	B	C
ATOM	1263	CA	PRO	B	20	-16.741	-15.286	24.670	1.00	10.61	B	C
ATOM	1264	CB	PRO	B	20	-15.642	-16.320	24.868	1.00	13.80	B	C
ATOM	1265	CG	PRO	B	20	-15.468	-16.403	26.396	1.00	14.94	B	C
ATOM	1266	C	PRO	B	20	-18.108	-15.931	24.767	1.00	11.96	B	C
ATOM	1267	O	PRO	B	20	-18.589	-16.196	25.865	1.00	15.08	B	O
ATOM	1268	N	TYR	B	21	-18.736	-16.231	23.637	1.00	12.61	B	N
ATOM	1269	CA	TYR	B	21	-20.057	-16.850	23.672	1.00	9.09	B	C
ATOM	1270	CB	TYR	B	21	-21.128	-15.791	23.865	1.00	10.22	B	C
ATOM	1271	CG	TYR	B	21	-21.192	-14.727	22.783	1.00	8.71	B	C
ATOM	1272	CD1	TYR	B	21	-21.709	-15.014	21.500	1.00	8.26	B	C
ATOM	1273	CE1	TYR	B	21	-21.799	-14.052	20.550	1.00	11.08	B	C
ATOM	1274	CD2	TYR	B	21	-20.811	-13.449	23.033	1.00	9.22	B	C

Table 9

ATOM	1275	CE2	TYR	B	21	-20.937	-12.460	22.084	1.00	12.73	B	C
ATOM	1276	CZ	TYR	B	21	-21.418	-12.775	20.840	1.00	12.08	B	C
ATOM	1277	OH	TYR	B	21	-21.446	-11.833	19.871	1.00	10.22	B	O
ATOM	1278	C	TYR	B	21	-20.359	-17.543	22.360	1.00	12.59	B	C
ATOM	1279	O	TYR	B	21	-19.593	-17.449	21.387	1.00	8.32	B	O
ATOM	1280	N	VAL	B	22	-21.508	-18.223	22.361	1.00	11.21	B	N
ATOM	1281	CA	VAL	B	22	-22.032	-18.859	21.171	1.00	10.99	B	C
ATOM	1282	CB	VAL	B	22	-22.213	-20.410	21.352	1.00	11.22	B	C
ATOM	1283	CG1	VAL	B	22	-23.088	-20.965	20.267	1.00	12.58	B	C
ATOM	1284	CG2	VAL	B	22	-20.868	-21.075	21.202	1.00	13.09	B	C
ATOM	1285	C	VAL	B	22	-23.392	-18.183	21.052	1.00	10.17	B	C
ATOM	1286	O	VAL	B	22	-24.092	-18.022	22.047	1.00	11.22	B	O
ATOM	1287	N	ARG	B	23	-23.766	-17.783	19.835	1.00	10.62	B	N
ATOM	1288	CA	ARG	B	23	-25.060	-17.135	19.644	1.00	8.59	B	C
ATOM	1289	CB	ARG	B	23	-24.856	-15.611	19.706	1.00	10.74	B	C
ATOM	1290	CG	ARG	B	23	-26.083	-14.762	19.270	1.00	10.88	B	C
ATOM	1291	CD	ARG	B	23	-25.794	-13.219	19.237	1.00	13.88	B	C
ATOM	1292	NE	ARG	B	23	-25.038	-12.910	18.044	1.00	15.32	B	N
ATOM	1293	CZ	ARG	B	23	-25.585	-12.569	16.884	1.00	18.68	B	C
ATOM	1294	NH1	ARG	B	23	-26.907	-12.452	16.763	1.00	15.10	B	N
ATOM	1295	NH2	ARG	B	23	-24.811	-12.399	15.830	1.00	17.82	B	N
ATOM	1296	C	ARG	B	23	-25.616	-17.517	18.265	1.00	11.83	B	C
ATOM	1297	O	ARG	B	23	-24.867	-17.498	17.274	1.00	12.65	B	O
ATOM	1298	N	LEU	B	24	-26.904	-17.891	18.208	1.00	12.47	B	N
ATOM	1299	CA	LEU	B	24	-27.584	-18.177	16.944	1.00	12.92	B	C
ATOM	1300	CB	LEU	B	24	-29.033	-18.685	17.211	1.00	12.99	B	C
ATOM	1301	CG	LEU	B	24	-29.845	-18.969	15.924	1.00	15.35	B	C
ATOM	1302	CD1	LEU	B	24	-29.313	-20.277	15.316	1.00	10.06	B	C
ATOM	1303	CD2	LEU	B	24	-31.385	-19.104	16.231	1.00	12.97	B	C
ATOM	1304	C	LEU	B	24	-27.667	-16.785	16.258	1.00	14.92	B	C
ATOM	1305	O	LEU	B	24	-28.299	-15.860	16.772	1.00	14.83	B	O
ATOM	1306	N	ALA	B	25	-27.026	-16.640	15.098	1.00	13.49	B	N
ATOM	1307	CA	ALA	B	25	-26.988	-15.393	14.378	1.00	11.76	B	C
ATOM	1308	CB	ALA	B	25	-25.646	-15.265	13.703	1.00	15.47	B	C
ATOM	1309	C	ALA	B	25	-28.125	-15.262	13.360	1.00	15.09	B	C
ATOM	1310	O	ALA	B	25	-28.460	-14.154	12.939	1.00	18.39	B	O
ATOM	1311	N	GLY	B	26	-28.723	-16.386	12.990	1.00	15.68	B	N
ATOM	1312	CA	GLY	B	26	-29.840	-16.361	12.030	1.00	16.62	B	C
ATOM	1313	C	GLY	B	26	-30.228	-17.779	11.631	1.00	15.56	B	C
ATOM	1314	O	GLY	B	26	-29.504	-18.723	11.921	1.00	13.40	B	O
ATOM	1315	N	VAL	B	27	-31.372	-17.934	10.990	1.00	15.14	B	N
ATOM	1316	CA	VAL	B	27	-31.829	-19.253	10.553	1.00	18.35	B	C
ATOM	1317	CB	VAL	B	27	-32.951	-19.826	11.390	1.00	21.88	B	C
ATOM	1318	CG1	VAL	B	27	-33.234	-21.277	10.911	1.00	21.46	B	C
ATOM	1319	CG2	VAL	B	27	-32.604	-19.813	12.823	1.00	25.59	B	C
ATOM	1320	C	VAL	B	27	-32.462	-19.059	9.210	1.00	19.48	B	C
ATOM	1321	O	VAL	B	27	-33.307	-18.178	9.063	1.00	16.85	B	O
ATOM	1322	N	LYS	B	28	-32.119	-19.900	8.238	1.00	18.47	B	N
ATOM	1323	CA	LYS	B	28	-32.712	-19.750	6.913	1.00	22.67	B	C
ATOM	1324	CB	LYS	B	28	-31.595	-19.492	5.890	1.00	23.23	B	C
ATOM	1325	CG	LYS	B	28	-32.061	-19.155	4.455	1.00	31.74	B	C
ATOM	1326	CD	LYS	B	28	-30.985	-18.383	3.674	1.00	33.58	B	C
ATOM	1327	CE	LYS	B	28	-31.220	-18.358	2.149	1.00	35.74	B	C
ATOM	1328	NZ	LYS	B	28	-32.544	-17.784	1.696	1.00	31.81	B	N
ATOM	1329	C	LYS	B	28	-33.509	-21.008	6.589	1.00	22.58	B	C
ATOM	1330	O	LYS	B	28	-33.041	-22.116	6.819	1.00	22.32	B	O
ATOM	1331	N	THR	B	29	-34.742	-20.853	6.115	1.00	19.89	B	N

Table 9

ATOM	1332	CA	THR	B	29	-35.536	-22.054	5.763	1.00	17.29	B	C
ATOM	1333	CB	THR	B	29	-37.026	-21.815	5.963	1.00	19.94	B	C
ATOM	1334	OG1	THR	B	29	-37.238	-21.461	7.324	1.00	18.64	B	O
ATOM	1335	CG2	THR	B	29	-37.844	-23.040	5.650	1.00	16.81	B	C
ATOM	1336	C	THR	B	29	-35.300	-22.410	4.310	1.00	16.45	B	C
ATOM	1337	O	THR	B	29	-35.332	-21.544	3.440	1.00	17.22	B	O
ATOM	1338	N	THR	B	30	-35.072	-23.694	4.041	1.00	13.59	B	N
ATOM	1339	CA	THR	B	30	-34.811	-24.134	2.695	1.00	15.77	B	C
ATOM	1340	CB	THR	B	30	-33.832	-25.333	2.790	1.00	17.99	B	C
ATOM	1341	OG1	THR	B	30	-33.106	-25.435	1.580	1.00	30.84	B	O
ATOM	1342	CG2	THR	B	30	-34.542	-26.572	3.023	1.00	9.61	B	C
ATOM	1343	C	THR	B	30	-36.140	-24.460	2.003	1.00	12.89	B	C
ATOM	1344	O	THR	B	30	-37.121	-24.625	2.695	1.00	12.79	B	O
ATOM	1345	N	PRO	B	31	-36.188	-24.552	0.657	1.00	15.06	B	N
ATOM	1346	CD	PRO	B	31	-35.138	-24.242	-0.339	1.00	16.80	B	C
ATOM	1347	CA	PRO	B	31	-37.450	-24.855	-0.036	1.00	14.88	B	C
ATOM	1348	CB	PRO	B	31	-37.032	-24.924	-1.518	1.00	15.83	B	C
ATOM	1349	CG	PRO	B	31	-35.943	-23.922	-1.608	1.00	18.10	B	C
ATOM	1350	C	PRO	B	31	-38.179	-26.129	0.407	1.00	16.99	B	C
ATOM	1351	O	PRO	B	31	-39.419	-26.207	0.344	1.00	15.62	B	O
ATOM	1352	N	LYS	B	32	-37.434	-27.130	0.845	1.00	18.36	B	N
ATOM	1353	CA	LYS	B	32	-38.071	-28.377	1.315	1.00	21.20	B	C
ATOM	1354	CB	LYS	B	32	-37.143	-29.577	1.137	1.00	24.39	B	C
ATOM	1355	CG	LYS	B	32	-36.905	-29.919	-0.345	1.00	33.24	B	C
ATOM	1356	CD	LYS	B	32	-38.207	-30.076	-1.112	1.00	39.20	B	C
ATOM	1357	CE	LYS	B	32	-37.941	-30.407	-2.581	1.00	43.15	B	C
ATOM	1358	NZ	LYS	B	32	-37.343	-31.758	-2.727	1.00	45.32	B	N
ATOM	1359	C	LYS	B	32	-38.497	-28.287	2.757	1.00	21.79	B	C
ATOM	1360	O	LYS	B	32	-39.126	-29.189	3.266	1.00	21.12	B	O
ATOM	1361	N	GLY	B	33	-38.189	-27.186	3.430	1.00	17.69	B	N
ATOM	1362	CA	GLY	B	33	-38.621	-27.067	4.800	1.00	18.34	B	C
ATOM	1363	C	GLY	B	33	-37.531	-27.348	5.808	1.00	16.33	B	C
ATOM	1364	O	GLY	B	33	-37.777	-27.279	7.016	1.00	16.84	B	O
ATOM	1365	N	ASP	B	34	-36.321	-27.668	5.339	1.00	13.35	B	N
ATOM	1366	CA	ASP	B	34	-35.223	-27.876	6.282	1.00	14.96	B	C
ATOM	1367	CB	ASP	B	34	-34.107	-28.716	5.644	1.00	15.84	B	C
ATOM	1368	CG	ASP	B	34	-34.431	-30.211	5.666	1.00	24.30	B	C
ATOM	1369	OD1	ASP	B	34	-35.093	-30.648	6.663	1.00	29.30	B	O
ATOM	1370	OD2	ASP	B	34	-34.015	-30.947	4.735	1.00	26.87	B	O
ATOM	1371	C	ASP	B	34	-34.701	-26.497	6.712	1.00	15.33	B	C
ATOM	1372	O	ASP	B	34	-35.198	-25.466	6.258	1.00	13.12	B	O
ATOM	1373	N	GLN	B	35	-33.712	-26.472	7.600	1.00	11.47	B	N
ATOM	1374	CA	GLN	B	35	-33.183	-25.211	8.107	1.00	14.49	B	C
ATOM	1375	CB	GLN	B	35	-33.584	-25.008	9.568	1.00	15.69	B	C
ATOM	1376	CG	GLN	B	35	-35.057	-24.725	9.783	1.00	23.66	B	C
ATOM	1377	CD	GLN	B	35	-35.426	-24.881	11.216	1.00	32.56	B	C
ATOM	1378	OE1	GLN	B	35	-35.686	-25.987	11.689	1.00	41.17	B	O
ATOM	1379	NE2	GLN	B	35	-35.408	-23.785	11.940	1.00	34.70	B	N
ATOM	1380	C	GLN	B	35	-31.663	-25.172	8.083	1.00	15.94	B	C
ATOM	1381	O	GLN	B	35	-31.000	-26.204	8.250	1.00	15.03	B	O
ATOM	1382	N	ILE	B	36	-31.114	-23.985	7.863	1.00	13.08	B	N
ATOM	1383	CA	ILE	B	36	-29.661	-23.834	7.942	1.00	14.22	B	C
ATOM	1384	CB	ILE	B	36	-29.090	-23.094	6.765	1.00	15.62	B	C
ATOM	1385	CG2	ILE	B	36	-27.541	-22.956	6.925	1.00	13.61	B	C
ATOM	1386	CG1	ILE	B	36	-29.434	-23.826	5.477	1.00	24.45	B	C
ATOM	1387	CD1	ILE	B	36	-29.079	-25.227	5.550	1.00	21.59	B	C
ATOM	1388	C	ILE	B	36	-29.511	-22.855	9.110	1.00	15.39	B	C

Table 9

ATOM	1389	O	ILE	B	36	-30.074	-21.771	9.026	1.00	14.96	B	O
ATOM	1390	N	SER	B	37	-28.774	-23.201	10.160	1.00	12.83	B	N
ATOM	1391	CA	SER	B	37	-28.611	-22.298	11.326	1.00	13.35	B	C
ATOM	1392	CB	SER	B	37	-28.700	-23.081	12.626	1.00	13.86	B	C
ATOM	1393	OG	SER	B	37	-30.043	-23.491	12.841	1.00	10.93	B	O
ATOM	1394	C	SER	B	37	-27.234	-21.653	11.236	1.00	13.89	B	C
ATOM	1395	O	SER	B	37	-26.295	-22.326	10.851	1.00	12.67	B	O
ATOM	1396	N	LYS	B	38	-27.142	-20.353	11.537	1.00	13.09	B	N
ATOM	1397	CA	LYS	B	38	-25.868	-19.645	11.513	1.00	11.50	B	C
ATOM	1398	CB	LYS	B	38	-25.962	-18.350	10.736	1.00	12.65	B	C
ATOM	1399	CG	LYS	B	38	-26.703	-18.437	9.400	1.00	22.16	B	C
ATOM	1400	CD	LYS	B	38	-26.835	-17.023	8.835	1.00	21.17	B	C
ATOM	1401	CE	LYS	B	38	-27.645	-16.968	7.534	1.00	24.85	B	C
ATOM	1402	NZ	LYS	B	38	-27.557	-15.551	6.970	1.00	20.77	B	N
ATOM	1403	C	LYS	B	38	-25.472	-19.279	12.952	1.00	12.16	B	C
ATOM	1404	O	LYS	B	38	-26.305	-18.857	13.753	1.00	11.06	B	O
ATOM	1405	N	TYR	B	39	-24.189	-19.391	13.265	1.00	11.98	B	N
ATOM	1406	CA	TYR	B	39	-23.739	-19.080	14.616	1.00	12.76	B	C
ATOM	1407	CB	TYR	B	39	-23.305	-20.355	15.349	1.00	11.65	B	C
ATOM	1408	CG	TYR	B	39	-24.443	-21.347	15.485	1.00	14.43	B	C
ATOM	1409	CD1	TYR	B	39	-25.295	-21.285	16.572	1.00	12.28	B	C
ATOM	1410	CE1	TYR	B	39	-26.355	-22.168	16.696	1.00	15.55	B	C
ATOM	1411	CD2	TYR	B	39	-24.670	-22.319	14.498	1.00	8.66	B	C
ATOM	1412	CE2	TYR	B	39	-25.723	-23.225	14.615	1.00	12.28	B	C
ATOM	1413	CZ	TYR	B	39	-26.563	-23.135	15.729	1.00	13.93	B	C
ATOM	1414	OH	TYR	B	39	-27.563	-24.048	15.908	1.00	15.01	B	O
ATOM	1415	C	TYR	B	39	-22.577	-18.116	14.629	1.00	10.74	B	C
ATOM	1416	O	TYR	B	39	-21.712	-18.178	13.792	1.00	11.36	B	O
ATOM	1417	N	ASP	B	40	-22.573	-17.264	15.644	1.00	10.27	B	N
ATOM	1418	CA	ASP	B	40	-21.540	-16.278	15.916	1.00	10.55	B	C
ATOM	1419	CB	ASP	B	40	-22.321	-15.015	16.325	1.00	14.01	B	C
ATOM	1420	CG	ASP	B	40	-21.478	-13.972	17.058	1.00	18.01	B	C
ATOM	1421	OD1	ASP	B	40	-20.248	-14.168	17.234	1.00	15.82	B	O
ATOM	1422	OD2	ASP	B	40	-22.079	-12.931	17.457	1.00	16.43	B	O
ATOM	1423	C	ASP	B	40	-20.753	-16.924	17.082	1.00	11.71	B	C
ATOM	1424	O	ASP	B	40	-21.267	-17.040	18.184	1.00	10.54	B	O
ATOM	1425	N	LEU	B	41	-19.547	-17.430	16.812	1.00	10.00	B	N
ATOM	1426	CA	LEU	B	41	-18.700	-18.059	17.839	1.00	12.57	B	C
ATOM	1427	CB	LEU	B	41	-17.944	-19.241	17.205	1.00	10.96	B	C
ATOM	1428	CG	LEU	B	41	-18.912	-20.254	16.566	1.00	14.44	B	C
ATOM	1429	CD1	LEU	B	41	-18.096	-21.412	15.996	1.00	18.25	B	C
ATOM	1430	CD2	LEU	B	41	-19.900	-20.807	17.585	1.00	17.00	B	C
ATOM	1431	C	LEU	B	41	-17.718	-16.941	18.239	1.00	12.41	B	C
ATOM	1432	O	LEU	B	41	-16.659	-16.763	17.653	1.00	13.60	B	O
ATOM	1433	N	ARG	B	42	-18.100	-16.143	19.218	1.00	13.16	B	N
ATOM	1434	CA	ARG	B	42	-17.297	-14.991	19.561	1.00	11.20	B	C
ATOM	1435	CB	ARG	B	42	-18.270	-13.913	20.067	1.00	12.95	B	C
ATOM	1436	CG	ARG	B	42	-17.705	-12.510	20.244	1.00	9.41	B	C
ATOM	1437	CD	ARG	B	42	-17.465	-11.827	18.891	1.00	14.12	B	C
ATOM	1438	NE	ARG	B	42	-18.703	-11.695	18.108	1.00	13.38	B	N
ATOM	1439	CZ	ARG	B	42	-18.914	-10.817	17.139	1.00	13.42	B	C
ATOM	1440	NH1	ARG	B	42	-20.110	-10.840	16.517	1.00	12.14	B	N
ATOM	1441	NH2	ARG	B	42	-17.955	-9.941	16.776	1.00	10.86	B	N
ATOM	1442	C	ARG	B	42	-16.177	-15.248	20.580	1.00	12.88	B	C
ATOM	1443	O	ARG	B	42	-16.448	-15.722	21.677	1.00	12.69	B	O
ATOM	1444	N	PHE	B	43	-14.943	-14.960	20.176	1.00	10.73	B	N
ATOM	1445	CA	PHE	B	43	-13.782	-15.123	21.057	1.00	12.19	B	C

Table 9

ATOM	1446	CB	PHE	B	43	-12.487	-15.338	20.240	1.00	12.02	B C
ATOM	1447	CG	PHE	B	43	-12.299	-16.730	19.728	1.00	13.59	B C
ATOM	1448	CD1	PHE	B	43	-11.127	-17.406	19.995	1.00	14.19	B C
ATOM	1449	CD2	PHE	B	43	-13.228	-17.314	18.879	1.00	14.24	B C
ATOM	1450	CE1	PHE	B	43	-10.855	-18.670	19.403	1.00	19.13	B C
ATOM	1451	CE2	PHE	B	43	-12.958	-18.579	18.270	1.00	18.79	B C
ATOM	1452	CZ	PHE	B	43	-11.762	-19.237	18.546	1.00	14.20	B C
ATOM	1453	C	PHE	B	43	-13.540	-13.871	21.911	1.00	14.99	B C
ATOM	1454	O	PHE	B	43	-13.309	-13.972	23.129	1.00	16.71	B O
ATOM	1455	N	LEU	B	44	-13.564	-12.709	21.258	1.00	11.97	B N
ATOM	1456	CA	LEU	B	44	-13.207	-11.431	21.881	1.00	15.37	B C
ATOM	1457	CB	LEU	B	44	-12.050	-10.752	21.123	1.00	16.46	B C
ATOM	1458	CG	LEU	B	44	-10.755	-11.542	20.924	1.00	22.85	B C
ATOM	1459	CD1	LEU	B	44	-9.694	-10.675	20.181	1.00	20.30	B C
ATOM	1460	CD2	LEU	B	44	-10.222	-12.036	22.288	1.00	22.94	B C
ATOM	1461	C	LEU	B	44	-14.315	-10.434	21.943	1.00	14.31	B C
ATOM	1462	O	LEU	B	44	-15.169	-10.368	21.071	1.00	12.57	B O
ATOM	1463	N	GLN	B	45	-14.249	-9.570	22.937	1.00	14.91	B N
ATOM	1464	CA	GLN	B	45	-15.288	-8.554	23.045	1.00	18.62	B C
ATOM	1465	CB	GLN	B	45	-15.092	-7.770	24.319	1.00	18.71	B C
ATOM	1466	CG	GLN	B	45	-16.234	-6.825	24.593	1.00	19.68	B C
ATOM	1467	CD	GLN	B	45	-17.555	-7.547	24.901	1.00	19.00	B C
ATOM	1468	OE1	GLN	B	45	-18.642	-6.979	24.726	1.00	22.23	B O
ATOM	1469	NE2	GLN	B	45	-17.468	-8.753	25.373	1.00	17.76	B N
ATOM	1470	C	GLN	B	45	-15.266	-7.579	21.844	1.00	16.42	B C
ATOM	1471	O	GLN	B	45	-14.235	-7.027	21.494	1.00	17.36	B O
ATOM	1472	N	PRO	B	46	-16.403	-7.378	21.200	1.00	15.79	B N
ATOM	1473	CD	PRO	B	46	-17.679	-8.106	21.344	1.00	12.88	B C
ATOM	1474	CA	PRO	B	46	-16.410	-6.458	20.055	1.00	17.74	B C
ATOM	1475	CB	PRO	B	46	-17.879	-6.284	19.752	1.00	16.55	B C
ATOM	1476	CG	PRO	B	46	-18.496	-7.639	20.170	1.00	16.12	B C
ATOM	1477	C	PRO	B	46	-15.720	-5.103	20.355	1.00	19.27	B C
ATOM	1478	O	PRO	B	46	-15.940	-4.480	21.385	1.00	21.07	B O
ATOM	1479	N	ASN	B	47	-14.868	-4.697	19.432	1.00	20.14	B N
ATOM	1480	CA	ASN	B	47	-14.141	-3.438	19.490	1.00	20.80	B C
ATOM	1481	CB	ASN	B	47	-15.134	-2.281	19.345	1.00	21.34	B C
ATOM	1482	CG	ASN	B	47	-15.838	-2.304	17.979	1.00	20.12	B C
ATOM	1483	OD1	ASN	B	47	-15.194	-2.173	16.947	1.00	24.41	B O
ATOM	1484	ND2	ASN	B	47	-17.138	-2.490	17.980	1.00	18.73	B N
ATOM	1485	C	ASN	B	47	-13.210	-3.224	20.662	1.00	21.76	B C
ATOM	1486	O	ASN	B	47	-12.988	-2.095	21.083	1.00	23.96	B O
ATOM	1487	N	GLN	B	48	-12.645	-4.309	21.170	1.00	18.92	B N
ATOM	1488	CA	GLN	B	48	-11.702	-4.198	22.281	1.00	23.05	B C
ATOM	1489	CB	GLN	B	48	-12.295	-4.849	23.546	1.00	23.93	B C
ATOM	1490	CG	GLN	B	48	-13.728	-4.403	23.804	1.00	33.58	B C
ATOM	1491	CD	GLN	B	48	-13.849	-3.490	24.985	1.00	42.14	B C
ATOM	1492	OE1	GLN	B	48	-14.117	-3.946	26.116	1.00	41.84	B O
ATOM	1493	NE2	GLN	B	48	-13.634	-2.185	24.752	1.00	41.36	B N
ATOM	1494	C	GLN	B	48	-10.403	-4.904	21.901	1.00	23.34	B C
ATOM	1495	O	GLN	B	48	-9.584	-5.254	22.765	1.00	24.15	B O
ATOM	1496	N	GLY	B	49	-10.213	-5.132	20.604	1.00	24.21	B N
ATOM	1497	CA	GLY	B	49	-9.007	-5.825	20.167	1.00	21.72	B C
ATOM	1498	C	GLY	B	49	-9.417	-6.867	19.143	1.00	21.28	B C
ATOM	1499	O	GLY	B	49	-10.584	-7.168	19.082	1.00	21.00	B O
ATOM	1500	N	ALA	B	50	-8.477	-7.395	18.349	1.00	17.01	B N
ATOM	1501	CA	ALA	B	50	-8.807	-8.376	17.319	1.00	15.08	B C
ATOM	1502	CB	ALA	B	50	-8.796	-7.717	15.918	1.00	14.56	B C

Table 9

ATOM	1503	C	ALA	B	50	-7.760	-9.423	17.347	1.00	14.31	B	C
ATOM	1504	O	ALA	B	50	-6.665	-9.183	17.870	1.00	15.26	B	O
ATOM	1505	N	ILE	B	51	-8.093	-10.587	16.803	1.00	13.60	B	N
ATOM	1506	CA	ILE	B	51	-7.126	-11.664	16.695	1.00	12.07	B	C
ATOM	1507	CB	ILE	B	51	-7.855	-12.998	16.432	1.00	13.02	B	C
ATOM	1508	CG2	ILE	B	51	-6.815	-14.153	16.201	1.00	17.55	B	C
ATOM	1509	CG1	ILE	B	51	-8.817	-13.285	17.596	1.00	12.98	B	C
ATOM	1510	CD1	ILE	B	51	-9.839	-14.417	17.346	1.00	15.73	B	C
ATOM	1511	C	ILE	B	51	-6.246	-11.332	15.477	1.00	12.90	B	C
ATOM	1512	O	ILE	B	51	-6.777	-11.007	14.417	1.00	14.90	B	O
ATOM	1513	N	ASP	B	52	-4.917	-11.447	15.602	1.00	11.33	B	N
ATOM	1514	CA	ASP	B	52	-3.967	-11.167	14.515	1.00	15.84	B	C
ATOM	1515	CB	ASP	B	52	-2.571	-11.527	15.037	1.00	26.30	B	C
ATOM	1516	CG	ASP	B	52	-1.481	-11.358	14.011	1.00	38.22	B	C
ATOM	1517	OD1	ASP	B	52	-1.017	-10.216	13.841	1.00	44.63	B	O
ATOM	1518	OD2	ASP	B	52	-1.074	-12.365	13.387	1.00	45.09	B	O
ATOM	1519	C	ASP	B	52	-4.318	-12.064	13.307	1.00	13.23	B	C
ATOM	1520	O	ASP	B	52	-4.697	-13.227	13.479	1.00	11.35	B	O
ATOM	1521	N	PRO	B	53	-4.197	-11.539	12.070	1.00	14.99	B	N
ATOM	1522	CD	PRO	B	53	-3.857	-10.151	11.710	1.00	18.52	B	C
ATOM	1523	CA	PRO	B	53	-4.527	-12.354	10.887	1.00	15.37	B	C
ATOM	1524	CB	PRO	B	53	-4.165	-11.445	9.699	1.00	16.64	B	C
ATOM	1525	CG	PRO	B	53	-4.392	-10.020	10.308	1.00	14.94	B	C
ATOM	1526	C	PRO	B	53	-3.879	-13.718	10.780	1.00	13.13	B	C
ATOM	1527	O	PRO	B	53	-4.528	-14.672	10.327	1.00	10.93	B	O
ATOM	1528	N	ALA	B	54	-2.617	-13.860	11.185	1.00	13.83	B	N
ATOM	1529	CA	ALA	B	54	-2.009	-15.200	11.071	1.00	14.55	B	C
ATOM	1530	CB	ALA	B	54	-0.463	-15.110	11.227	1.00	13.66	B	C
ATOM	1531	C	ALA	B	54	-2.603	-16.200	12.094	1.00	12.06	B	C
ATOM	1532	O	ALA	B	54	-2.844	-17.394	11.796	1.00	10.55	B	O
ATOM	1533	N	ALA	B	55	-2.856	-15.705	13.288	1.00	12.88	B	N
ATOM	1534	CA	ALA	B	55	-3.464	-16.526	14.360	1.00	11.79	B	C
ATOM	1535	CB	ALA	B	55	-3.522	-15.744	15.663	1.00	12.44	B	C
ATOM	1536	C	ALA	B	55	-4.914	-16.954	13.960	1.00	10.95	B	C
ATOM	1537	O	ALA	B	55	-5.314	-18.084	14.236	1.00	11.37	B	O
ATOM	1538	N	ILE	B	56	-5.666	-16.095	13.282	1.00	11.08	B	N
ATOM	1539	CA	ILE	B	56	-7.038	-16.478	12.948	1.00	10.86	B	C
ATOM	1540	CB	ILE	B	56	-7.961	-15.228	12.714	1.00	11.74	B	C
ATOM	1541	CG2	ILE	B	56	-7.915	-14.755	11.226	1.00	13.89	B	C
ATOM	1542	CG1	ILE	B	56	-9.369	-15.588	13.155	1.00	14.09	B	C
ATOM	1543	CD1	ILE	B	56	-10.424	-14.402	13.105	1.00	14.28	B	C
ATOM	1544	C	ILE	B	56	-7.082	-17.404	11.750	1.00	8.78	B	C
ATOM	1545	O	ILE	B	56	-8.010	-18.216	11.622	1.00	9.03	B	O
ATOM	1546	N	HIS	B	57	-6.088	-17.269	10.877	1.00	9.32	B	N
ATOM	1547	CA	HIS	B	57	-5.918	-18.176	9.739	1.00	8.07	B	C
ATOM	1548	CB	HIS	B	57	-4.761	-17.685	8.863	1.00	9.03	B	C
ATOM	1549	CG	HIS	B	57	-4.553	-18.473	7.583	1.00	9.09	B	C
ATOM	1550	CD2	HIS	B	57	-5.332	-19.364	6.928	1.00	9.57	B	C
ATOM	1551	ND1	HIS	B	57	-3.392	-18.363	6.846	1.00	14.96	B	N
ATOM	1552	CE1	HIS	B	57	-3.460	-19.149	5.788	1.00	12.66	B	C
ATOM	1553	NE2	HIS	B	57	-4.626	-19.776	5.814	1.00	13.27	B	N
ATOM	1554	C	HIS	B	57	-5.610	-19.611	10.292	1.00	6.79	B	C
ATOM	1555	O	HIS	B	57	-6.188	-20.610	9.803	1.00	7.30	B	O
ATOM	1556	N	THR	B	58	-4.725	-19.732	11.312	1.00	7.18	B	N
ATOM	1557	CA	THR	B	58	-4.402	-21.045	11.897	1.00	8.45	B	C
ATOM	1558	CB	THR	B	58	-3.188	-20.945	12.837	1.00	11.61	B	C
ATOM	1559	OG1	THR	B	58	-2.049	-20.552	12.058	1.00	11.24	B	O

Table 9

ATOM	1560	CG2	THR	B	58	-2.901	-22.289	13.564	1.00	10.03	B C
ATOM	1561	C	THR	B	58	-5.630	-21.620	12.631	1.00	10.27	B C
ATOM	1562	O	THR	B	58	-5.916	-22.841	12.549	1.00	9.17	B O
ATOM	1563	N	LEU	B	59	-6.376	-20.742	13.313	1.00	10.22	B N
ATOM	1564	CA	LEU	B	59	-7.598	-21.131	14.019	1.00	11.70	B C
ATOM	1565	CB	LEU	B	59	-8.256	-19.930	14.746	1.00	9.38	B C
ATOM	1566	CG	LEU	B	59	-7.642	-19.676	16.152	1.00	9.54	B C
ATOM	1567	CD1	LEU	B	59	-8.225	-18.381	16.675	1.00	12.66	B C
ATOM	1568	CD2	LEU	B	59	-7.958	-20.845	17.178	1.00	9.30	B C
ATOM	1569	C	LEU	B	59	-8.591	-21.701	13.027	1.00	11.03	B C
ATOM	1570	O	LEU	B	59	-9.295	-22.663	13.340	1.00	10.87	B O
ATOM	1571	N	GLU	B	60	-8.684	-21.076	11.862	1.00	9.22	B N
ATOM	1572	CA	GLU	B	60	-9.575	-21.576	10.823	1.00	11.17	B C
ATOM	1573	CB	GLU	B	60	-9.554	-20.579	9.664	1.00	11.08	B C
ATOM	1574	CG	GLU	B	60	-10.401	-20.909	8.462	1.00	11.74	B C
ATOM	1575	CD	GLU	B	60	-9.863	-20.166	7.195	1.00	14.29	B C
ATOM	1576	OE1	GLU	B	60	-8.637	-20.187	6.903	1.00	15.90	B O
ATOM	1577	OE2	GLU	B	60	-10.665	-19.567	6.484	1.00	16.88	B O
ATOM	1578	C	GLU	B	60	-9.131	-22.981	10.376	1.00	11.55	B C
ATOM	1579	O	GLU	B	60	-9.938	-23.874	10.358	1.00	13.11	B O
ATOM	1580	N	HIS	B	61	-7.849	-23.200	10.061	1.00	11.20	B N
ATOM	1581	CA	HIS	B	61	-7.407	-24.534	9.669	1.00	11.77	B C
ATOM	1582	CB	HIS	B	61	-5.885	-24.598	9.426	1.00	11.86	B C
ATOM	1583	CG	HIS	B	61	-5.464	-24.078	8.084	1.00	15.81	B C
ATOM	1584	CD2	HIS	B	61	-5.786	-22.931	7.436	1.00	11.58	B C
ATOM	1585	ND1	HIS	B	61	-4.592	-24.767	7.254	1.00	12.87	B N
ATOM	1586	CE1	HIS	B	61	-4.391	-24.055	6.157	1.00	14.06	B C
ATOM	1587	NE2	HIS	B	61	-5.110	-22.937	6.239	1.00	13.26	B N
ATOM	1588	C	HIS	B	61	-7.722	-25.574	10.773	1.00	12.84	B C
ATOM	1589	O	HIS	B	61	-8.140	-26.685	10.465	1.00	14.00	B O
ATOM	1590	N	LEU	B	62	-7.461	-25.235	12.037	1.00	12.16	B N
ATOM	1591	CA	LEU	B	62	-7.700	-26.200	13.110	1.00	13.60	B C
ATOM	1592	CB	LEU	B	62	-6.978	-25.717	14.385	1.00	13.09	B C
ATOM	1593	CG	LEU	B	62	-5.465	-25.614	14.269	1.00	13.36	B C
ATOM	1594	CD1	LEU	B	62	-4.917	-24.973	15.559	1.00	13.82	B C
ATOM	1595	CD2	LEU	B	62	-4.863	-27.028	14.116	1.00	14.56	B C
ATOM	1596	C	LEU	B	62	-9.181	-26.468	13.403	1.00	13.67	B C
ATOM	1597	O	LEU	B	62	-9.614	-27.633	13.530	1.00	10.77	B O
ATOM	1598	N	LEU	B	63	-9.976	-25.392	13.482	1.00	12.33	B N
ATOM	1599	CA	LEU	B	63	-11.387	-25.558	13.811	1.00	14.67	B C
ATOM	1600	CB	LEU	B	63	-12.043	-24.234	14.226	1.00	15.16	B C
ATOM	1601	CG	LEU	B	63	-11.412	-23.681	15.479	1.00	14.65	B C
ATOM	1602	CD1	LEU	B	63	-11.859	-22.238	15.717	1.00	14.53	B C
ATOM	1603	CD2	LEU	B	63	-11.801	-24.567	16.675	1.00	19.78	B C
ATOM	1604	C	LEU	B	63	-12.146	-26.132	12.660	1.00	15.09	B C
ATOM	1605	O	LEU	B	63	-13.180	-26.772	12.922	1.00	16.02	B O
ATOM	1606	N	ALA	B	64	-11.670	-25.937	11.415	1.00	14.32	B N
ATOM	1607	CA	ALA	B	64	-12.391	-26.516	10.253	1.00	16.36	B C
ATOM	1608	CB	ALA	B	64	-11.643	-26.298	8.956	1.00	16.08	B C
ATOM	1609	C	ALA	B	64	-12.494	-28.034	10.520	1.00	18.18	B C
ATOM	1610	O	ALA	B	64	-13.533	-28.668	10.277	1.00	17.46	B O
ATOM	1611	N	GLY	B	65	-11.403	-28.616	11.006	1.00	17.04	B N
ATOM	1612	CA	GLY	B	65	-11.418	-30.038	11.276	1.00	18.17	B C
ATOM	1613	C	GLY	B	65	-12.038	-30.414	12.618	1.00	17.38	B C
ATOM	1614	O	GLY	B	65	-12.929	-31.281	12.668	1.00	15.16	B O
ATOM	1615	N	TYR	B	66	-11.631	-29.735	13.693	1.00	14.19	B N
ATOM	1616	CA	TYR	B	66	-12.143	-30.064	15.024	1.00	17.02	B C

ATOM	1617	CB	TYR	B	66	-11.365	-29.317	16.107	1.00	19.47	B	C
ATOM	1618	CG	TYR	B	66	-9.940	-29.807	16.263	1.00	24.98	B	C
ATOM	1619	CD1	TYR	B	66	-8.890	-28.906	16.401	1.00	26.85	B	C
ATOM	1620	CE1	TYR	B	66	-7.583	-29.338	16.569	1.00	31.70	B	C
ATOM	1621	CD2	TYR	B	66	-9.654	-31.166	16.289	1.00	26.17	B	C
ATOM	1622	CE2	TYR	B	66	-8.352	-31.621	16.450	1.00	32.54	B	C
ATOM	1623	CZ	TYR	B	66	-7.314	-30.702	16.596	1.00	33.77	B	C
ATOM	1624	OH	TYR	B	66	-6.020	-31.139	16.808	1.00	27.90	B	O
ATOM	1625	C	TYR	B	66	-13.622	-29.806	15.186	1.00	14.91	B	C
ATOM	1626	O	TYR	B	66	-14.292	-30.572	15.853	1.00	19.04	B	O
ATOM	1627	N	MSE	B	67	-14.160	-28.739	14.599	1.00	14.97	B	N
ATOM	1628	CA	MSE	B	67	-15.600	-28.561	14.751	1.00	14.53	B	C
ATOM	1629	CB	MSE	B	67	-16.125	-27.250	14.121	1.00	16.47	B	C
ATOM	1630	CG	MSE	B	67	-15.795	-26.000	14.928	1.00	26.38	B	C
ATOM	1631	SE	MSE	B	67	-16.598	-26.018	16.715	1.00	35.19	B	S
ATOM	1632	CE	MSE	B	67	-18.217	-26.566	16.291	1.00	8.70	B	C
ATOM	1633	C	MSE	B	67	-16.317	-29.732	14.075	1.00	14.22	B	C
ATOM	1634	O	MSE	B	67	-17.353	-30.194	14.588	1.00	14.13	B	O
ATOM	1635	N	ARG	B	68	-15.812	-30.177	12.920	1.00	11.81	B	N
ATOM	1636	CA	ARG	B	68	-16.443	-31.286	12.211	1.00	14.74	B	C
ATOM	1637	CB	ARG	B	68	-15.914	-31.422	10.777	1.00	13.27	B	C
ATOM	1638	CG	ARG	B	68	-16.314	-30.145	9.927	1.00	15.76	B	C
ATOM	1639	CD	ARG	B	68	-16.011	-30.328	8.427	1.00	18.13	B	C
ATOM	1640	NE	ARG	B	68	-16.627	-29.294	7.563	1.00	18.56	B	N
ATOM	1641	CZ	ARG	B	68	-16.167	-28.057	7.374	1.00	19.57	B	C
ATOM	1642	NH1	ARG	B	68	-16.822	-27.230	6.540	1.00	15.22	B	N
ATOM	1643	NH2	ARG	B	68	-15.077	-27.631	8.010	1.00	13.45	B	N
ATOM	1644	C	ARG	B	68	-16.339	-32.611	12.958	1.00	16.24	B	C
ATOM	1645	O	ARG	B	68	-17.184	-33.471	12.756	1.00	16.08	B	O
ATOM	1646	N	ASP	B	69	-15.325	-32.746	13.812	1.00	16.78	B	N
ATOM	1647	CA	ASP	B	69	-15.157	-33.937	14.664	1.00	22.11	B	C
ATOM	1648	CB	ASP	B	69	-13.785	-33.953	15.407	1.00	19.45	B	C
ATOM	1649	CG	ASP	B	69	-12.596	-34.140	14.479	1.00	25.39	B	C
ATOM	1650	OD1	ASP	B	69	-12.752	-34.720	13.386	1.00	25.51	B	O
ATOM	1651	OD2	ASP	B	69	-11.476	-33.739	14.875	1.00	21.71	B	O
ATOM	1652	C	ASP	B	69	-16.225	-33.943	15.773	1.00	22.49	B	C
ATOM	1653	O	ASP	B	69	-16.513	-34.990	16.355	1.00	22.49	B	O
ATOM	1654	N	HIS	B	70	-16.797	-32.785	16.089	1.00	20.12	B	N
ATOM	1655	CA	HIS	B	70	-17.767	-32.713	17.184	1.00	20.32	B	C
ATOM	1656	CB	HIS	B	70	-17.223	-31.749	18.254	1.00	18.70	B	C
ATOM	1657	CG	HIS	B	70	-15.913	-32.194	18.838	1.00	21.14	B	C
ATOM	1658	CD2	HIS	B	70	-14.662	-31.680	18.732	1.00	22.69	B	C
ATOM	1659	ND1	HIS	B	70	-15.785	-33.352	19.588	1.00	24.24	B	N
ATOM	1660	CE1	HIS	B	70	-14.512	-33.532	19.911	1.00	22.59	B	C
ATOM	1661	NE2	HIS	B	70	-13.810	-32.533	19.406	1.00	24.03	B	N
ATOM	1662	C	HIS	B	70	-19.197	-32.349	16.820	1.00	21.51	B	C
ATOM	1663	O	HIS	B	70	-20.093	-32.427	17.672	1.00	18.60	B	O
ATOM	1664	N	LEU	B	71	-19.430	-32.001	15.550	1.00	18.39	B	N
ATOM	1665	CA	LEU	B	71	-20.763	-31.572	15.149	1.00	19.75	B	C
ATOM	1666	CB	LEU	B	71	-20.827	-30.020	15.240	1.00	19.74	B	C
ATOM	1667	CG	LEU	B	71	-22.083	-29.190	14.992	1.00	23.13	B	C
ATOM	1668	CD1	LEU	B	71	-23.177	-29.545	16.007	1.00	25.23	B	C
ATOM	1669	CD2	LEU	B	71	-21.713	-27.690	15.122	1.00	18.37	B	C
ATOM	1670	C	LEU	B	71	-21.029	-32.022	13.711	1.00	17.30	B	C
ATOM	1671	O	LEU	B	71	-20.175	-31.851	12.835	1.00	17.03	B	O
ATOM	1672	N	GLU	B	72	-22.218	-32.570	13.480	1.00	18.28	B	N
ATOM	1673	CA	GLU	B	72	-22.624	-32.979	12.126	1.00	22.04	B	C

Table 9

ATOM	1674	CB	GLU	B	72	-23.674	-34.079	12.196	1.00	25.23	B C
ATOM	1675	CG	GLU	B	72	-23.174	-35.380	12.799	1.00	39.14	B C
ATOM	1676	CD	GLU	B	72	-24.202	-36.496	12.621	1.00	53.19	B C
ATOM	1677	OE1	GLU	B	72	-25.224	-36.491	13.355	1.00	54.66	B O
ATOM	1678	OE2	GLU	B	72	-24.005	-37.365	11.728	1.00	58.16	B O
ATOM	1679	C	GLU	B	72	-23.261	-31.806	11.384	1.00	19.96	B C
ATOM	1680	O	GLU	B	72	-23.698	-30.826	12.019	1.00	18.63	B O
ATOM	1681	N	GLY	B	77	-23.310	-31.903	10.051	1.00	16.99	B N
ATOM	1682	CA	GLY	B	77	-23.978	-30.871	9.266	1.00	17.63	B C
ATOM	1683	C	GLY	B	77	-23.276	-29.534	9.071	1.00	14.62	B C
ATOM	1684	O	GLY	B	77	-23.889	-28.573	8.621	1.00	13.94	B O
ATOM	1685	N	VAL	B	78	-21.991	-29.443	9.370	1.00	14.55	B N
ATOM	1686	CA	VAL	B	78	-21.284	-28.153	9.189	1.00	14.53	B C
ATOM	1687	CB	VAL	B	78	-19.880	-28.187	9.883	1.00	12.44	B C
ATOM	1688	CG1	VAL	B	78	-19.109	-26.880	9.612	1.00	14.78	B C
ATOM	1689	CG2	VAL	B	78	-20.070	-28.423	11.384	1.00	15.14	B C
ATOM	1690	C	VAL	B	78	-21.117	-27.798	7.732	1.00	16.87	B C
ATOM	1691	O	VAL	B	78	-20.618	-28.612	6.928	1.00	18.45	B O
ATOM	1692	N	VAL	B	79	-21.592	-26.613	7.355	1.00	13.77	B N
ATOM	1693	CA	VAL	B	79	-21.464	-26.180	5.973	1.00	16.37	B C
ATOM	1694	CB	VAL	B	79	-22.641	-25.312	5.561	1.00	16.57	B C
ATOM	1695	CG1	VAL	B	79	-22.430	-24.763	4.157	1.00	18.99	B C
ATOM	1696	CG2	VAL	B	79	-23.904	-26.126	5.628	1.00	20.82	B C
ATOM	1697	C	VAL	B	79	-20.181	-25.408	5.724	1.00	17.78	B C
ATOM	1698	O	VAL	B	79	-19.539	-25.559	4.673	1.00	16.47	B O
ATOM	1699	N	ASP	B	80	-19.789	-24.605	6.710	1.00	16.20	B N
ATOM	1700	CA	ASP	B	80	-18.611	-23.776	6.603	1.00	17.56	B C
ATOM	1701	CB	ASP	B	80	-18.932	-22.575	5.693	1.00	20.79	B C
ATOM	1702	CG	ASP	B	80	-17.715	-21.655	5.456	1.00	28.24	B C
ATOM	1703	OD1	ASP	B	80	-16.775	-22.095	4.756	1.00	28.51	B O
ATOM	1704	OD2	ASP	B	80	-17.707	-20.504	5.962	1.00	33.20	B O
ATOM	1705	C	ASP	B	80	-18.270	-23.267	8.000	1.00	16.48	B C
ATOM	1706	O	ASP	B	80	-19.156	-23.034	8.817	1.00	13.44	B O
ATOM	1707	N	VAL	B	81	-16.975	-23.111	8.252	1.00	13.60	B N
ATOM	1708	CA	VAL	B	81	-16.442	-22.593	9.499	1.00	15.13	B C
ATOM	1709	CB	VAL	B	81	-15.693	-23.649	10.269	1.00	18.09	B C
ATOM	1710	CG1	VAL	B	81	-14.879	-22.988	11.409	1.00	25.38	B C
ATOM	1711	CG2	VAL	B	81	-16.682	-24.616	10.834	1.00	22.53	B C
ATOM	1712	C	VAL	B	81	-15.463	-21.585	8.966	1.00	14.86	B C
ATOM	1713	O	VAL	B	81	-14.528	-21.970	8.260	1.00	14.78	B O
ATOM	1714	N	SER	B	82	-15.677	-20.297	9.264	1.00	14.21	B N
ATOM	1715	CA	SER	B	82	-14.800	-19.263	8.696	1.00	13.43	B C
ATOM	1716	CB	SER	B	82	-15.455	-18.667	7.428	1.00	17.25	B C
ATOM	1717	OG	SER	B	82	-15.188	-19.383	6.232	1.00	21.41	B O
ATOM	1718	C	SER	B	82	-14.558	-18.066	9.642	1.00	13.62	B C
ATOM	1719	O	SER	B	82	-15.366	-17.774	10.482	1.00	12.45	B O
ATOM	1720	N	PRO	B	83	-13.437	-17.357	9.480	1.00	12.27	B N
ATOM	1721	CD	PRO	B	83	-12.363	-17.572	8.496	1.00	15.59	B C
ATOM	1722	CA	PRO	B	83	-13.165	-16.196	10.333	1.00	14.14	B C
ATOM	1723	CB	PRO	B	83	-11.722	-15.813	9.979	1.00	16.29	B C
ATOM	1724	CG	PRO	B	83	-11.572	-16.282	8.576	1.00	17.81	B C
ATOM	1725	C	PRO	B	83	-14.123	-15.061	9.989	1.00	12.79	B C
ATOM	1726	O	PRO	B	83	-14.594	-14.936	8.846	1.00	14.46	B O
ATOM	1727	N	MSE	B	84	-14.414	-14.214	10.963	1.00	11.45	B N
ATOM	1728	CA	MSE	B	84	-15.260	-13.046	10.661	1.00	12.41	B C
ATOM	1729	CB	MSE	B	84	-16.027	-12.580	11.915	1.00	12.87	B C
ATOM	1730	CG	MSE	B	84	-16.950	-13.623	12.456	1.00	12.27	B C

Table 9

ATOM	1731	SE	MSE	B	84	-17.966	-12.799	13.993	1.00	33.94	B	S
ATOM	1732	CE	MSE	B	84	-16.707	-12.654	15.015	1.00	12.13	B	C
ATOM	1733	C	MSE	B	84	-14.324	-11.939	10.209	1.00	11.93	B	C
ATOM	1734	O	MSE	B	84	-13.171	-11.846	10.657	1.00	13.60	B	O
ATOM	1735	N	GLY	B	85	-14.795	-11.092	9.296	1.00	11.32	B	N
ATOM	1736	CA	GLY	B	85	-13.948	-9.993	8.839	1.00	8.92	B	C
ATOM	1737	C	GLY	B	85	-13.515	-9.086	10.005	1.00	9.59	B	C
ATOM	1738	O	GLY	B	85	-12.457	-8.476	9.903	1.00	7.87	B	O
ATOM	1739	N	CYS	B	86	-14.322	-8.987	11.075	1.00	8.69	B	N
ATOM	1740	CA	CYS	B	86	-13.953	-8.168	12.240	1.00	9.23	B	C
ATOM	1741	CB	CYS	B	86	-15.183	-7.783	13.054	1.00	9.61	B	C
ATOM	1742	SG	CYS	B	86	-16.206	-9.154	13.621	1.00	15.84	B	S
ATOM	1743	C	CYS	B	86	-12.867	-8.845	13.132	1.00	9.49	B	C
ATOM	1744	O	CYS	B	86	-12.272	-8.212	13.996	1.00	12.75	B	O
ATOM	1745	N	ARG	B	87	-12.592	-10.122	12.868	1.00	10.14	B	N
ATOM	1746	CA	ARG	B	87	-11.530	-10.870	13.547	1.00	11.20	B	C
ATOM	1747	CB	ARG	B	87	-10.112	-10.287	13.188	1.00	10.57	B	C
ATOM	1748	CG	ARG	B	87	-9.678	-10.570	11.680	1.00	14.54	B	C
ATOM	1749	CD	ARG	B	87	-8.279	-10.047	11.296	1.00	12.30	B	C
ATOM	1750	NE	ARG	B	87	-8.180	-8.573	11.351	1.00	15.82	B	N
ATOM	1751	CZ	ARG	B	87	-7.472	-7.835	12.203	1.00	18.13	B	C
ATOM	1752	NH1	ARG	B	87	-7.477	-6.503	12.074	1.00	18.78	B	N
ATOM	1753	NH2	ARG	B	87	-6.756	-8.376	13.176	1.00	19.33	B	N
ATOM	1754	C	ARG	B	87	-11.680	-10.979	15.063	1.00	13.38	B	C
ATOM	1755	O	ARG	B	87	-10.690	-11.041	15.785	1.00	17.18	B	O
ATOM	1756	N	THR	B	88	-12.907	-11.012	15.540	1.00	11.74	B	N
ATOM	1757	CA	THR	B	88	-13.126	-11.194	16.963	1.00	11.11	B	C
ATOM	1758	CB	THR	B	88	-14.047	-10.084	17.600	1.00	10.96	B	C
ATOM	1759	OG1	THR	B	88	-15.342	-10.119	17.012	1.00	12.94	B	O
ATOM	1760	CG2	THR	B	88	-13.422	-8.721	17.489	1.00	15.00	B	C
ATOM	1761	C	THR	B	88	-13.736	-12.570	17.202	1.00	10.73	B	C
ATOM	1762	O	THR	B	88	-14.021	-12.948	18.339	1.00	9.14	B	O
ATOM	1763	N	GLY	B	89	-13.909	-13.345	16.134	1.00	11.98	B	N
ATOM	1764	CA	GLY	B	89	-14.482	-14.686	16.317	1.00	11.76	B	C
ATOM	1765	C	GLY	B	89	-14.702	-15.346	14.956	1.00	15.38	B	C
ATOM	1766	O	GLY	B	89	-14.255	-14.824	13.907	1.00	12.12	B	O
ATOM	1767	N	MSE	B	90	-15.417	-16.471	14.972	1.00	13.08	B	N
ATOM	1768	CA	MSE	B	90	-15.687	-17.259	13.770	1.00	12.73	B	C
ATOM	1769	CB	MSE	B	90	-15.181	-18.720	13.935	1.00	12.82	B	C
ATOM	1770	CG	MSE	B	90	-13.865	-18.926	14.595	1.00	18.19	B	C
ATOM	1771	SE	MSE	B	90	-12.374	-18.403	13.410	1.00	33.40	B	S
ATOM	1772	CE	MSE	B	90	-12.548	-19.695	12.020	1.00	19.69	B	C
ATOM	1773	C	MSE	B	90	-17.177	-17.359	13.500	1.00	11.51	B	C
ATOM	1774	O	MSE	B	90	-18.010	-17.220	14.381	1.00	11.93	B	O
ATOM	1775	N	TYR	B	91	-17.490	-17.597	12.238	1.00	14.30	B	N
ATOM	1776	CA	TYR	B	91	-18.865	-17.717	11.780	1.00	12.99	B	C
ATOM	1777	CB	TYR	B	91	-19.049	-16.756	10.612	1.00	18.47	B	C
ATOM	1778	CG	TYR	B	91	-20.265	-17.093	9.766	1.00	25.27	B	C
ATOM	1779	CD1	TYR	B	91	-20.209	-18.113	8.785	1.00	29.36	B	C
ATOM	1780	CE1	TYR	B	91	-21.355	-18.466	8.029	1.00	28.41	B	C
ATOM	1781	CD2	TYR	B	91	-21.479	-16.431	9.974	1.00	30.25	B	C
ATOM	1782	CE2	TYR	B	91	-22.627	-16.765	9.243	1.00	27.23	B	C
ATOM	1783	CZ	TYR	B	91	-22.558	-17.788	8.277	1.00	32.08	B	C
ATOM	1784	OH	TYR	B	91	-23.703	-18.158	7.604	1.00	34.76	B	O
ATOM	1785	C	TYR	B	91	-19.080	-19.154	11.324	1.00	12.88	B	C
ATOM	1786	O	TYR	B	91	-18.197	-19.693	10.712	1.00	12.42	B	O
ATOM	1787	N	MSE	B	92	-20.199	-19.794	11.642	1.00	11.23	B	N

Table 9

ATOM	1788	CA	MSE	B	92	-20.403	-21.181	11.191	1.00	11.57	B C
ATOM	1789	CB	MSE	B	92	-20.169	-22.189	12.333	1.00	10.28	B C
ATOM	1790	CG	MSE	B	92	-20.376	-23.662	11.871	1.00	14.91	B C
ATOM	1791	SE	MSE	B	92	-19.711	-24.719	13.348	1.00	20.98	B S
ATOM	1792	CE	MSE	B	92	-20.993	-24.109	14.673	1.00	18.29	B C
ATOM	1793	C	MSE	B	92	-21.821	-21.358	10.771	1.00	13.41	B C
ATOM	1794	O	MSE	B	92	-22.707	-20.896	11.484	1.00	13.86	B O
ATOM	1795	N	ALA	B	93	-22.028	-22.048	9.645	1.00	8.74	B N
ATOM	1796	CA	ALA	B	93	-23.356	-22.333	9.158	1.00	9.88	B C
ATOM	1797	CB	ALA	B	93	-23.532	-21.852	7.710	1.00	12.25	B C
ATOM	1798	C	ALA	B	93	-23.467	-23.873	9.253	1.00	10.91	B C
ATOM	1799	O	ALA	B	93	-22.533	-24.614	8.901	1.00	12.88	B O
ATOM	1800	N	VAL	B	94	-24.593	-24.328	9.779	1.00	12.43	B N
ATOM	1801	CA	VAL	B	94	-24.863	-25.766	10.011	1.00	13.11	B C
ATOM	1802	CB	VAL	B	94	-24.980	-26.024	11.518	1.00	15.24	B C
ATOM	1803	CG1	VAL	B	94	-25.086	-27.526	11.822	1.00	20.12	B C
ATOM	1804	CG2	VAL	B	94	-23.712	-25.425	12.221	1.00	19.55	B C
ATOM	1805	C	VAL	B	94	-26.223	-26.194	9.425	1.00	11.91	B C
ATOM	1806	O	VAL	B	94	-27.205	-25.465	9.555	1.00	13.20	B O
ATOM	1807	N	ILE	B	95	-26.285	-27.378	8.830	1.00	12.50	B N
ATOM	1808	CA	ILE	B	95	-27.574	-27.903	8.393	1.00	12.06	B C
ATOM	1809	CB	ILE	B	95	-27.394	-29.049	7.400	1.00	11.57	B C
ATOM	1810	CG2	ILE	B	95	-28.772	-29.744	7.132	1.00	14.25	B C
ATOM	1811	CG1	ILE	B	95	-26.788	-28.490	6.113	1.00	11.69	B C
ATOM	1812	CD1	ILE	B	95	-26.265	-29.607	5.216	1.00	19.26	B C
ATOM	1813	C	ILE	B	95	-28.224	-28.461	9.671	1.00	13.72	B C
ATOM	1814	O	ILE	B	95	-27.654	-29.336	10.311	1.00	15.78	B O
ATOM	1815	N	GLY	B	96	-29.403	-27.959	10.031	1.00	15.55	B N
ATOM	1816	CA	GLY	B	96	-30.097	-28.421	11.227	1.00	16.97	B C
ATOM	1817	C	GLY	B	96	-30.825	-27.277	11.931	1.00	15.41	B C
ATOM	1818	O	GLY	B	96	-30.515	-26.099	11.724	1.00	16.15	B O
ATOM	1819	N	GLU	B	97	-31.769	-27.656	12.774	1.00	13.20	B N
ATOM	1820	CA	GLU	B	97	-32.580	-26.786	13.591	1.00	17.42	B C
ATOM	1821	CB	GLU	B	97	-33.507	-27.676	14.435	1.00	22.56	B C
ATOM	1822	CG	GLU	B	97	-34.240	-28.832	13.663	1.00	39.38	B C
ATOM	1823	CD	GLU	B	97	-33.358	-30.022	13.067	1.00	41.97	B C
ATOM	1824	OE1	GLU	B	97	-33.905	-30.765	12.220	1.00	47.62	B O
ATOM	1825	OE2	GLU	B	97	-32.176	-30.245	13.419	1.00	39.99	B O
ATOM	1826	C	GLU	B	97	-31.607	-26.075	14.540	1.00	15.41	B C
ATOM	1827	O	GLU	B	97	-30.549	-26.598	14.808	1.00	15.13	B O
ATOM	1828	N	PRO	B	98	-31.979	-24.918	15.075	1.00	14.73	B N
ATOM	1829	CD	PRO	B	98	-33.154	-24.110	14.678	1.00	14.68	B C
ATOM	1830	CA	PRO	B	98	-31.100	-24.185	15.990	1.00	16.26	B C
ATOM	1831	CB	PRO	B	98	-31.907	-22.930	16.327	1.00	16.18	B C
ATOM	1832	CG	PRO	B	98	-32.692	-22.689	14.982	1.00	18.23	B C
ATOM	1833	C	PRO	B	98	-30.825	-25.027	17.224	1.00	17.61	B C
ATOM	1834	O	PRO	B	98	-31.757	-25.641	17.755	1.00	16.42	B O
ATOM	1835	N	ASP	B	99	-29.564	-25.062	17.674	1.00	16.13	B N
ATOM	1836	CA	ASP	B	99	-29.228	-25.843	18.859	1.00	18.21	B C
ATOM	1837	CB	ASP	B	99	-28.934	-27.310	18.457	1.00	18.34	B C
ATOM	1838	CG	ASP	B	99	-28.596	-28.225	19.669	1.00	25.42	B C
ATOM	1839	OD1	ASP	B	99	-28.724	-27.798	20.848	1.00	24.43	B O
ATOM	1840	OD2	ASP	B	99	-28.205	-29.392	19.428	1.00	26.53	B O
ATOM	1841	C	ASP	B	99	-28.015	-25.193	19.503	1.00	15.99	B C
ATOM	1842	O	ASP	B	99	-26.938	-25.765	19.493	1.00	16.44	B O
ATOM	1843	N	GLU	B	100	-28.219	-24.007	20.068	1.00	17.82	B N
ATOM	1844	CA	GLU	B	100	-27.143	-23.253	20.714	1.00	17.97	B C

Table 9

ATOM	1845	CB	GLU	B	100	-27.667	-21.938	21.300	1.00	22.38	B	C
ATOM	1846	CG	GLU	B	100	-27.980	-20.922	20.237	1.00	27.40	B	C
ATOM	1847	CD	GLU	B	100	-28.804	-19.746	20.737	1.00	33.51	B	C
ATOM	1848	OE1	GLU	B	100	-29.897	-19.961	21.318	1.00	27.93	B	O
ATOM	1849	OE2	GLU	B	100	-28.361	-18.592	20.527	1.00	33.05	B	O
ATOM	1850	C	GLU	B	100	-26.410	-24.036	21.785	1.00	15.69	B	C
ATOM	1851	O	GLU	B	100	-25.209	-23.917	21.883	1.00	16.10	B	O
ATOM	1852	N	GLN	B	101	-27.132	-24.815	22.575	1.00	15.55	B	N
ATOM	1853	CA	GLN	B	101	-26.511	-25.623	23.618	1.00	18.56	B	C
ATOM	1854	CB	GLN	B	101	-27.571	-26.281	24.500	1.00	21.85	B	C
ATOM	1855	CG	GLN	B	101	-26.941	-27.094	25.652	1.00	25.10	B	C
ATOM	1856	CD	GLN	B	101	-26.297	-26.178	26.700	1.00	30.58	B	C
ATOM	1857	OE1	GLN	B	101	-26.659	-25.001	26.828	1.00	32.01	B	O
ATOM	1858	NE2	GLN	B	101	-25.358	-26.725	27.466	1.00	32.43	B	N
ATOM	1859	C	GLN	B	101	-25.609	-26.688	23.008	1.00	17.03	B	C
ATOM	1860	O	GLN	B	101	-24.478	-26.866	23.443	1.00	18.62	B	O
ATOM	1861	N	GLY	B	102	-26.110	-27.441	22.037	1.00	16.76	B	N
ATOM	1862	CA	GLY	B	102	-25.242	-28.427	21.407	1.00	14.25	B	C
ATOM	1863	C	GLY	B	102	-24.022	-27.802	20.696	1.00	15.17	B	C
ATOM	1864	O	GLY	B	102	-22.944	-28.388	20.689	1.00	13.95	B	O
ATOM	1865	N	VAL	B	103	-24.167	-26.611	20.116	1.00	13.35	B	N
ATOM	1866	CA	VAL	B	103	-23.063	-26.004	19.410	1.00	12.11	B	C
ATOM	1867	CB	VAL	B	103	-23.565	-24.866	18.466	1.00	12.87	B	C
ATOM	1868	CG1	VAL	B	103	-22.455	-23.965	17.985	1.00	11.49	B	C
ATOM	1869	CG2	VAL	B	103	-24.285	-25.528	17.245	1.00	15.38	B	C
ATOM	1870	C	VAL	B	103	-22.047	-25.521	20.426	1.00	14.87	B	C
ATOM	1871	O	VAL	B	103	-20.870	-25.685	20.208	1.00	15.41	B	O
ATOM	1872	N	MSE	B	104	-22.498	-24.941	21.532	1.00	14.89	B	N
ATOM	1873	CA	MSE	B	104	-21.542	-24.494	22.540	1.00	16.89	B	C
ATOM	1874	CB	MSE	B	104	-22.211	-23.849	23.747	1.00	18.90	B	C
ATOM	1875	CG	MSE	B	104	-21.278	-23.794	24.992	1.00	21.01	B	C
ATOM	1876	SE	MSE	B	104	-22.170	-22.555	26.190	1.00	32.55	B	S
ATOM	1877	CE	MSE	B	104	-21.937	-21.186	24.859	1.00	25.46	B	C
ATOM	1878	C	MSE	B	104	-20.767	-25.706	23.031	1.00	16.44	B	C
ATOM	1879	O	MSE	B	104	-19.593	-25.617	23.232	1.00	17.33	B	O
ATOM	1880	N	LYS	B	105	-21.408	-26.843	23.234	1.00	17.14	B	N
ATOM	1881	CA	LYS	B	105	-20.646	-27.999	23.706	1.00	19.24	B	C
ATOM	1882	CB	LYS	B	105	-21.584	-29.131	24.120	1.00	26.74	B	C
ATOM	1883	CG	LYS	B	105	-22.519	-28.619	25.199	1.00	35.83	B	C
ATOM	1884	CD	LYS	B	105	-22.839	-29.620	26.278	1.00	43.30	B	C
ATOM	1885	CE	LYS	B	105	-23.326	-28.860	27.517	1.00	45.94	B	C
ATOM	1886	NZ	LYS	B	105	-22.389	-27.723	27.857	1.00	35.31	B	N
ATOM	1887	C	LYS	B	105	-19.637	-28.455	22.679	1.00	20.09	B	C
ATOM	1888	O	LYS	B	105	-18.499	-28.758	23.043	1.00	16.75	B	O
ATOM	1889	N	ALA	B	106	-20.034	-28.442	21.403	1.00	17.78	B	N
ATOM	1890	CA	ALA	B	106	-19.118	-28.828	20.338	1.00	19.83	B	C
ATOM	1891	CB	ALA	B	106	-19.877	-28.956	18.953	1.00	17.66	B	C
ATOM	1892	C	ALA	B	106	-17.958	-27.820	20.220	1.00	16.41	B	C
ATOM	1893	O	ALA	B	106	-16.842	-28.235	20.016	1.00	17.92	B	O
ATOM	1894	N	PHE	B	107	-18.236	-26.520	20.320	1.00	14.34	B	N
ATOM	1895	CA	PHE	B	107	-17.227	-25.465	20.260	1.00	15.76	B	C
ATOM	1896	CB	PHE	B	107	-17.916	-24.088	20.310	1.00	14.72	B	C
ATOM	1897	CG	PHE	B	107	-16.987	-22.906	20.140	1.00	17.86	B	C
ATOM	1898	CD1	PHE	B	107	-15.869	-22.970	19.309	1.00	17.16	B	C
ATOM	1899	CD2	PHE	B	107	-17.306	-21.686	20.748	1.00	12.56	B	C
ATOM	1900	CE1	PHE	B	107	-15.089	-21.828	19.094	1.00	17.57	B	C
ATOM	1901	CE2	PHE	B	107	-16.546	-20.545	20.536	1.00	18.17	B	C

ATOM	1902	CZ	PHE	B	107	-15.435	-20.617	19.711	1.00	16.51	B C
ATOM	1903	C	PHE	B	107	-16.250	-25.651	21.446	1.00	14.73	B C
ATOM	1904	O	PHE	B	107	-15.023	-25.490	21.302	1.00	12.64	B O
ATOM	1905	N	GLU	B	108	-16.778	-25.977	22.615	1.00	12.44	B N
ATOM	1906	CA	GLU	B	108	-15.909	-26.219	23.752	1.00	16.84	B C
ATOM	1907	CB	GLU	B	108	-16.750	-26.492	25.003	1.00	20.78	B C
ATOM	1908	CG	GLU	B	108	-15.853	-26.784	26.218	1.00	33.30	B C
ATOM	1909	CD	GLU	B	108	-16.645	-27.144	27.474	1.00	44.74	B C
ATOM	1910	OE1	GLU	B	108	-16.017	-27.290	28.560	1.00	44.74	B O
ATOM	1911	OE2	GLU	B	108	-17.886	-27.283	27.369	1.00	47.06	B O
ATOM	1912	C	GLU	B	108	-14.938	-27.431	23.476	1.00	17.18	B C
ATOM	1913	O	GLU	B	108	-13.715	-27.288	23.657	1.00	16.82	B O
ATOM	1914	N	ALA	B	109	-15.468	-28.568	23.004	1.00	14.52	B N
ATOM	1915	CA	ALA	B	109	-14.632	-29.754	22.702	1.00	16.63	B C
ATOM	1916	CB	ALA	B	109	-15.479	-30.914	22.178	1.00	18.69	B C
ATOM	1917	C	ALA	B	109	-13.574	-29.386	21.656	1.00	19.39	B C
ATOM	1918	O	ALA	B	109	-12.396	-29.683	21.818	1.00	16.49	B O
ATOM	1919	N	ALA	B	110	-13.994	-28.702	20.600	1.00	16.99	B N
ATOM	1920	CA	ALA	B	110	-13.046	-28.298	19.565	1.00	17.98	B C
ATOM	1921	CB	ALA	B	110	-13.812	-27.717	18.382	1.00	13.00	B C
ATOM	1922	C	ALA	B	110	-11.991	-27.302	20.075	1.00	13.46	B C
ATOM	1923	O	ALA	B	110	-10.855	-27.289	19.595	1.00	15.08	B O
ATOM	1924	N	LEU	B	111	-12.373	-26.425	20.990	1.00	13.05	B N
ATOM	1925	CA	LEU	B	111	-11.401	-25.511	21.541	1.00	14.63	B C
ATOM	1926	CB	LEU	B	111	-12.089	-24.444	22.392	1.00	14.96	B C
ATOM	1927	CG	LEU	B	111	-12.754	-23.317	21.552	1.00	14.95	B C
ATOM	1928	CD1	LEU	B	111	-13.710	-22.504	22.451	1.00	19.05	B C
ATOM	1929	CD2	LEU	B	111	-11.651	-22.429	20.910	1.00	16.52	B C
ATOM	1930	C	LEU	B	111	-10.389	-26.287	22.412	1.00	16.44	B C
ATOM	1931	O	LEU	B	111	-9.230	-25.926	22.454	1.00	15.07	B O
ATOM	1932	N	LYS	B	112	-10.819	-27.313	23.140	1.00	16.10	B N
ATOM	1933	CA	LYS	B	112	-9.815	-28.052	23.917	1.00	17.15	B C
ATOM	1934	CB	LYS	B	112	-10.475	-29.081	24.831	1.00	20.14	B C
ATOM	1935	CG	LYS	B	112	-11.313	-28.488	25.939	1.00	22.67	B C
ATOM	1936	CD	LYS	B	112	-11.926	-29.608	26.760	1.00	28.38	B C
ATOM	1937	CE	LYS	B	112	-12.746	-29.018	27.894	1.00	32.75	B C
ATOM	1938	NZ	LYS	B	112	-13.758	-30.000	28.347	1.00	29.66	B N
ATOM	1939	C	LYS	B	112	-8.869	-28.767	22.954	1.00	17.94	B C
ATOM	1940	O	LYS	B	112	-7.657	-28.882	23.239	1.00	17.93	B O
ATOM	1941	N	ASP	B	113	-9.403	-29.273	21.826	1.00	17.67	B N
ATOM	1942	CA	ASP	B	113	-8.539	-29.941	20.823	1.00	16.39	B C
ATOM	1943	CB	ASP	B	113	-9.337	-30.526	19.610	1.00	19.32	B C
ATOM	1944	CG	ASP	B	113	-10.239	-31.760	19.973	1.00	26.22	B C
ATOM	1945	OD1	ASP	B	113	-10.061	-32.430	21.017	1.00	23.73	B O
ATOM	1946	OD2	ASP	B	113	-11.152	-32.081	19.172	1.00	28.30	B O
ATOM	1947	C	ASP	B	113	-7.527	-28.898	20.282	1.00	16.53	B C
ATOM	1948	O	ASP	B	113	-6.374	-29.217	20.040	1.00	15.52	B O
ATOM	1949	N	THR	B	114	-7.958	-27.643	20.090	1.00	14.05	B N
ATOM	1950	CA	THR	B	114	-7.059	-26.618	19.560	1.00	13.59	B C
ATOM	1951	CB	THR	B	114	-7.871	-25.332	19.156	1.00	15.62	B C
ATOM	1952	OG1	THR	B	114	-8.850	-25.712	18.214	1.00	14.62	B O
ATOM	1953	CG2	THR	B	114	-6.983	-24.269	18.507	1.00	20.77	B C
ATOM	1954	C	THR	B	114	-5.994	-26.226	20.582	1.00	15.17	B C
ATOM	1955	O	THR	B	114	-4.813	-26.026	20.240	1.00	13.65	B O
ATOM	1956	N	ALA	B	115	-6.398	-26.092	21.838	1.00	13.84	B N
ATOM	1957	CA	ALA	B	115	-5.427	-25.679	22.841	1.00	16.25	B C
ATOM	1958	CB	ALA	B	115	-6.143	-25.452	24.209	1.00	16.17	B C

Table 9

ATOM	1959	C	ALA	B	115	-4.312	-26.718	22.968	1.00	15.22	B	C
ATOM	1960	O	ALA	B	115	-3.144	-26.368	23.133	1.00	17.24	B	O
ATOM	1961	N	GLY	B	116	-4.686	-27.982	22.836	1.00	15.45	B	N
ATOM	1962	CA	GLY	B	116	-3.730	-29.066	22.955	1.00	15.88	B	C
ATOM	1963	C	GLY	B	116	-3.063	-29.480	21.651	1.00	20.74	B	C
ATOM	1964	O	GLY	B	116	-2.257	-30.413	21.663	1.00	22.64	B	O
ATOM	1965	N	HIS	B	117	-3.312	-28.776	20.539	1.00	18.50	B	N
ATOM	1966	CA	HIS	B	117	-2.731	-29.193	19.257	1.00	18.73	B	C
ATOM	1967	CB	HIS	B	117	-3.453	-28.499	18.084	1.00	15.18	B	C
ATOM	1968	CG	HIS	B	117	-3.076	-29.030	16.735	1.00	14.38	B	C
ATOM	1969	CD2	HIS	B	117	-1.977	-28.823	15.974	1.00	16.83	B	C
ATOM	1970	ND1	HIS	B	117	-3.866	-29.914	16.036	1.00	18.53	B	N
ATOM	1971	CE1	HIS	B	117	-3.271	-30.237	14.902	1.00	18.62	B	C
ATOM	1972	NE2	HIS	B	117	-2.125	-29.584	14.839	1.00	17.32	B	N
ATOM	1973	C	HIS	B	117	-1.227	-28.911	19.170	1.00	22.47	B	C
ATOM	1974	O	HIS	B	117	-0.804	-27.796	18.876	1.00	19.94	B	O
ATOM	1975	N	ASP	B	118	-0.429	-29.949	19.433	1.00	27.79	B	N
ATOM	1976	CA	ASP	B	118	1.025	-29.819	19.412	1.00	31.77	B	C
ATOM	1977	CB	ASP	B	118	1.627	-30.329	20.727	1.00	35.43	B	C
ATOM	1978	CG	ASP	B	118	1.422	-31.823	20.936	1.00	39.37	B	C
ATOM	1979	OD1	ASP	B	118	0.573	-32.450	20.268	1.00	39.87	B	O
ATOM	1980	OD2	ASP	B	118	2.116	-32.382	21.806	1.00	48.78	B	O
ATOM	1981	C	ASP	B	118	1.611	-30.580	18.230	1.00	33.57	B	C
ATOM	1982	O	ASP	B	118	2.736	-31.067	18.272	1.00	34.90	B	O
ATOM	1983	N	GLN	B	120	0.830	-30.694	17.172	1.00	32.52	B	N
ATOM	1984	CA	GLN	B	120	1.311	-31.357	15.983	1.00	30.73	B	C
ATOM	1985	CB	GLN	B	120	0.359	-32.479	15.578	1.00	32.02	B	C
ATOM	1986	CG	GLN	B	120	-0.204	-33.305	16.731	1.00	41.57	B	C
ATOM	1987	CD	GLN	B	120	-1.733	-33.107	16.907	1.00	49.04	B	C
ATOM	1988	OE1	GLN	B	120	-2.542	-33.616	16.103	1.00	47.85	B	O
ATOM	1989	NE2	GLN	B	120	-2.128	-32.358	17.954	1.00	47.58	B	N
ATOM	1990	C	GLN	B	120	1.383	-30.259	14.900	1.00	28.56	B	C
ATOM	1991	O	GLN	B	120	0.969	-29.114	15.105	1.00	26.22	B	O
ATOM	1992	N	PRO	B	122	1.953	-30.576	13.740	1.00	27.73	B	N
ATOM	1993	CD	PRO	B	122	2.712	-31.782	13.347	1.00	28.87	B	C
ATOM	1994	CA	PRO	B	122	2.012	-29.519	12.713	1.00	26.19	B	C
ATOM	1995	CB	PRO	B	122	2.675	-30.226	11.527	1.00	28.34	B	C
ATOM	1996	CG	PRO	B	122	3.595	-31.255	12.205	1.00	28.65	B	C
ATOM	1997	C	PRO	B	122	0.593	-29.032	12.347	1.00	22.16	B	C
ATOM	1998	O	PRO	B	122	-0.374	-29.766	12.526	1.00	21.14	B	O
ATOM	1999	N	ILE	B	123	0.466	-27.814	11.830	1.00	19.86	B	N
ATOM	2000	CA	ILE	B	123	-0.880	-27.305	11.430	1.00	17.64	B	C
ATOM	2001	CB	ILE	B	123	-0.806	-25.781	11.107	1.00	14.68	B	C
ATOM	2002	CG2	ILE	B	123	-2.181	-25.237	10.802	1.00	16.33	B	C
ATOM	2003	CG1	ILE	B	123	-0.165	-25.001	12.284	1.00	17.55	B	C
ATOM	2004	CD1	ILE	B	123	0.280	-23.544	11.901	1.00	14.64	B	C
ATOM	2005	C	ILE	B	123	-1.346	-28.041	10.162	1.00	17.01	B	C
ATOM	2006	O	ILE	B	123	-0.663	-28.031	9.118	1.00	17.03	B	O
ATOM	2007	N	PRO	B	124	-2.502	-28.679	10.210	1.00	15.96	B	N
ATOM	2008	CD	PRO	B	124	-3.550	-28.605	11.248	1.00	18.41	B	C
ATOM	2009	CA	PRO	B	124	-2.968	-29.389	9.014	1.00	19.04	B	C
ATOM	2010	CB	PRO	B	124	-4.302	-30.024	9.462	1.00	22.88	B	C
ATOM	2011	CG	PRO	B	124	-4.321	-29.877	10.986	1.00	25.16	B	C
ATOM	2012	C	PRO	B	124	-3.170	-28.416	7.824	1.00	19.44	B	C
ATOM	2013	O	PRO	B	124	-3.502	-27.237	8.044	1.00	17.36	B	O
ATOM	2014	N	GLY	B	125	-2.945	-28.914	6.598	1.00	20.84	B	N
ATOM	2015	CA	GLY	B	125	-3.127	-28.132	5.386	1.00	21.47	B	C

Table 9

ATOM	2016	C	GLY	B	125	-2.223	-26.944	5.109	1.00	21.27	B C
ATOM	2017	O	GLY	B	125	-2.575	-26.039	4.350	1.00	18.56	B O
ATOM	2018	N	VAL	B	126	-1.034	-26.932	5.686	1.00	19.27	B N
ATOM	2019	CA	VAL	B	126	-0.194	-25.795	5.444	1.00	17.07	B C
ATOM	2020	CB	VAL	B	126	0.384	-25.233	6.755	1.00	18.08	B C
ATOM	2021	CG1	VAL	B	126	1.295	-23.999	6.478	1.00	20.77	B C
ATOM	2022	CG2	VAL	B	126	-0.763	-24.790	7.623	1.00	19.17	B C
ATOM	2023	C	VAL	B	126	0.881	-26.107	4.458	1.00	16.57	B C
ATOM	2024	O	VAL	B	126	1.874	-26.712	4.776	1.00	18.51	B O
ATOM	2025	N	SER	B	127	0.630	-25.727	3.205	1.00	15.45	B N
ATOM	2026	CA	SER	B	127	1.572	-25.891	2.137	1.00	14.81	B C
ATOM	2027	CB	SER	B	127	1.678	-27.370	1.706	1.00	19.70	B C
ATOM	2028	OG	SER	B	127	0.458	-27.864	1.176	1.00	17.56	B O
ATOM	2029	C	SER	B	127	1.044	-25.064	0.968	1.00	14.77	B C
ATOM	2030	O	SER	B	127	-0.120	-24.626	0.981	1.00	11.77	B O
ATOM	2031	N	GLU	B	128	1.901	-24.870	-0.037	1.00	15.08	B N
ATOM	2032	CA	GLU	B	128	1.584	-24.144	-1.260	1.00	17.73	B C
ATOM	2033	CB	GLU	B	128	2.834	-24.145	-2.114	1.00	25.04	B C
ATOM	2034	CG	GLU	B	128	2.885	-23.218	-3.271	1.00	35.70	B C
ATOM	2035	CD	GLU	B	128	4.240	-23.351	-3.960	1.00	39.82	B C
ATOM	2036	OE1	GLU	B	128	4.575	-24.498	-4.374	1.00	37.19	B O
ATOM	2037	OE2	GLU	B	128	4.972	-22.330	-4.038	1.00	46.10	B O
ATOM	2038	C	GLU	B	128	0.480	-24.896	-2.002	1.00	15.98	B C
ATOM	2039	O	GLU	B	128	-0.315	-24.330	-2.756	1.00	16.87	B O
ATOM	2040	N	LEU	B	129	0.437	-26.193	-1.817	1.00	13.57	B N
ATOM	2041	CA	LEU	B	129	-0.597	-26.966	-2.484	1.00	15.79	B C
ATOM	2042	CB	LEU	B	129	-0.212	-28.430	-2.572	1.00	16.42	B C
ATOM	2043	CG	LEU	B	129	1.032	-28.804	-3.426	1.00	19.51	B C
ATOM	2044	CD1	LEU	B	129	1.353	-30.318	-3.242	1.00	20.11	B C
ATOM	2045	CD2	LEU	B	129	0.777	-28.498	-4.881	1.00	21.22	B C
ATOM	2046	C	LEU	B	129	-1.973	-26.892	-1.810	1.00	16.80	B C
ATOM	2047	O	LEU	B	129	-2.985	-26.892	-2.506	1.00	13.12	B O
ATOM	2048	N	GLU	B	130	-2.016	-26.827	-0.482	1.00	13.29	B N
ATOM	2049	CA	GLU	B	130	-3.314	-26.868	0.227	1.00	16.24	B C
ATOM	2050	CB	GLU	B	130	-3.244	-27.892	1.372	1.00	16.54	B C
ATOM	2051	CG	GLU	B	130	-2.724	-29.261	0.920	1.00	18.13	B C
ATOM	2052	CD	GLU	B	130	-2.187	-30.088	2.129	1.00	29.30	B C
ATOM	2053	OE1	GLU	B	130	-1.142	-29.726	2.722	1.00	29.62	B O
ATOM	2054	OE2	GLU	B	130	-2.817	-31.083	2.512	1.00	27.98	B O
ATOM	2055	C	GLU	B	130	-3.848	-25.598	0.820	1.00	17.32	B C
ATOM	2056	O	GLU	B	130	-4.993	-25.588	1.282	1.00	16.53	B O
ATOM	2057	N	CYS	B	131	-3.040	-24.536	0.803	1.00	14.43	B N
ATOM	2058	CA	CYS	B	131	-3.428	-23.296	1.469	1.00	15.25	B C
ATOM	2059	CB	CYS	B	131	-2.671	-23.268	2.780	1.00	17.16	B C
ATOM	2060	SG	CYS	B	131	-2.739	-21.784	3.745	1.00	15.45	B S
ATOM	2061	C	CYS	B	131	-3.075	-22.088	0.604	1.00	16.60	B C
ATOM	2062	O	CYS	B	131	-2.035	-22.070	-0.027	1.00	16.62	B O
ATOM	2063	N	GLY	B	132	-3.957	-21.090	0.582	1.00	14.68	B N
ATOM	2064	CA	GLY	B	132	-3.725	-19.883	-0.204	1.00	15.07	B C
ATOM	2065	C	GLY	B	132	-2.741	-18.855	0.363	1.00	16.44	B C
ATOM	2066	O	GLY	B	132	-2.415	-17.855	-0.302	1.00	17.53	B O
ATOM	2067	N	ASN	B	133	-2.272	-19.049	1.592	1.00	17.63	B N
ATOM	2068	CA	ASN	B	133	-1.285	-18.133	2.180	1.00	16.82	B C
ATOM	2069	CB	ASN	B	133	-1.980	-16.939	2.882	1.00	18.21	B C
ATOM	2070	CG	ASN	B	133	-1.058	-15.760	3.039	1.00	21.16	B C
ATOM	2071	OD1	ASN	B	133	0.135	-15.891	2.808	1.00	20.63	B O
ATOM	2072	ND2	ASN	B	133	-1.589	-14.618	3.439	1.00	17.20	B N

Table 9

ATOM	2073	C	ASN	B	133	-0.542	-18.967	3.218	1.00	16.44	B	C
ATOM	2074	O	ASN	B	133	-0.663	-18.707	4.409	1.00	15.43	B	O
ATOM	2075	N	TYR	B	134	0.166	-19.998	2.769	1.00	15.45	B	N
ATOM	2076	CA	TYR	B	134	0.850	-20.903	3.710	1.00	17.53	B	C
ATOM	2077	CB	TYR	B	134	1.429	-22.118	2.990	1.00	15.93	B	C
ATOM	2078	CG	TYR	B	134	2.659	-21.837	2.157	1.00	15.30	B	C
ATOM	2079	CD1	TYR	B	134	3.916	-21.861	2.718	1.00	14.37	B	C
ATOM	2080	CE1	TYR	B	134	5.068	-21.612	1.935	1.00	16.02	B	C
ATOM	2081	CD2	TYR	B	134	2.547	-21.563	0.807	1.00	14.44	B	C
ATOM	2082	CE2	TYR	B	134	3.672	-21.323	0.013	1.00	17.27	B	C
ATOM	2083	CZ	TYR	B	134	4.937	-21.345	0.596	1.00	16.24	B	C
ATOM	2084	OH	TYR	B	134	6.078	-21.075	-0.147	1.00	16.08	B	O
ATOM	2085	C	TYR	B	134	1.915	-20.265	4.587	1.00	17.68	B	C
ATOM	2086	O	TYR	B	134	2.276	-20.835	5.603	1.00	16.29	B	O
ATOM	2087	N	ARG	B	135	2.388	-19.078	4.233	1.00	18.56	B	N
ATOM	2088	CA	ARG	B	135	3.400	-18.427	5.042	1.00	20.88	B	C
ATOM	2089	CB	ARG	B	135	4.243	-17.474	4.178	1.00	21.97	B	C
ATOM	2090	CG	ARG	B	135	5.109	-18.141	3.114	1.00	26.56	B	C
ATOM	2091	CD	ARG	B	135	5.755	-17.055	2.311	1.00	29.48	B	C
ATOM	2092	NE	ARG	B	135	6.404	-17.486	1.082	1.00	30.95	B	N
ATOM	2093	CZ	ARG	B	135	5.811	-17.526	-0.105	1.00	31.28	B	C
ATOM	2094	NH1	ARG	B	135	6.509	-17.904	-1.162	1.00	33.49	B	N
ATOM	2095	NH2	ARG	B	135	4.518	-17.223	-0.239	1.00	29.45	B	N
ATOM	2096	C	ARG	B	135	2.843	-17.615	6.207	1.00	21.44	B	C
ATOM	2097	O	ARG	B	135	3.609	-17.119	7.016	1.00	25.50	B	O
ATOM	2098	N	ASP	B	136	1.528	-17.492	6.295	1.00	20.87	B	N
ATOM	2099	CA	ASP	B	136	0.853	-16.643	7.300	1.00	21.24	B	C
ATOM	2100	CB	ASP	B	136	-0.125	-15.697	6.561	1.00	26.30	B	C
ATOM	2101	CG	ASP	B	136	-0.698	-14.594	7.464	1.00	32.29	B	C
ATOM	2102	OD1	ASP	B	136	0.103	-14.005	8.223	1.00	31.46	B	O
ATOM	2103	OD2	ASP	B	136	-1.934	-14.314	7.416	1.00	24.39	B	O
ATOM	2104	C	ASP	B	136	0.106	-17.446	8.368	1.00	17.53	B	C
ATOM	2105	O	ASP	B	136	-1.112	-17.467	8.407	1.00	15.47	B	O
ATOM	2106	N	HIS	B	137	0.847	-18.069	9.274	1.00	15.98	B	N
ATOM	2107	CA	HIS	B	137	0.235	-18.894	10.322	1.00	11.69	B	C
ATOM	2108	CB	HIS	B	137	0.405	-20.382	9.932	1.00	12.03	B	C
ATOM	2109	CG	HIS	B	137	-0.653	-20.862	8.973	1.00	12.35	B	C
ATOM	2110	CD2	HIS	B	137	-0.631	-21.027	7.624	1.00	13.93	B	C
ATOM	2111	ND1	HIS	B	137	-1.920	-21.222	9.384	1.00	14.63	B	N
ATOM	2112	CE1	HIS	B	137	-2.629	-21.597	8.326	1.00	13.29	B	C
ATOM	2113	NE2	HIS	B	137	-1.871	-21.491	7.251	1.00	14.60	B	N
ATOM	2114	C	HIS	B	137	0.885	-18.615	11.642	1.00	13.62	B	C
ATOM	2115	O	HIS	B	137	1.996	-18.048	11.671	1.00	13.48	B	O
ATOM	2116	N	ASP	B	138	0.182	-18.935	12.730	1.00	12.77	B	N
ATOM	2117	CA	ASP	B	138	0.750	-18.770	14.074	1.00	15.26	B	C
ATOM	2118	CB	ASP	B	138	0.563	-17.363	14.595	1.00	18.06	B	C
ATOM	2119	CG	ASP	B	138	1.361	-17.119	15.888	1.00	18.61	B	C
ATOM	2120	OD1	ASP	B	138	1.649	-18.102	16.608	1.00	22.50	B	O
ATOM	2121	OD2	ASP	B	138	1.661	-15.948	16.176	1.00	19.63	B	O
ATOM	2122	C	ASP	B	138	0.102	-19.749	15.041	1.00	13.93	B	C
ATOM	2123	O	ASP	B	138	-0.904	-19.403	15.687	1.00	14.47	B	O
ATOM	2124	N	LEU	B	139	0.657	-20.964	15.128	1.00	14.11	B	N
ATOM	2125	CA	LEU	B	139	0.112	-21.983	16.016	1.00	16.49	B	C
ATOM	2126	CB	LEU	B	139	0.880	-23.310	15.877	1.00	16.31	B	C
ATOM	2127	CG	LEU	B	139	0.423	-24.428	16.840	1.00	19.45	B	C
ATOM	2128	CD1	LEU	B	139	-1.109	-24.676	16.659	1.00	15.55	B	C
ATOM	2129	CD2	LEU	B	139	1.211	-25.715	16.568	1.00	18.94	B	C

Table 9

ATOM	2130	C	LEU	B	139	0.116	-21.563	17.506	1.00	16.71	B C
ATOM	2131	O	LEU	B	139	-0.870	-21.771	18.212	1.00	14.43	B O
ATOM	2132	N	ALA	B	140	1.236	-21.039	18.006	1.00	14.27	B N
ATOM	2133	CA	ALA	B	140	1.270	-20.616	19.428	1.00	17.81	B C
ATOM	2134	CB	ALA	B	140	2.651	-19.919	19.751	1.00	19.73	B C
ATOM	2135	C	ALA	B	140	0.099	-19.665	19.787	1.00	16.62	B C
ATOM	2136	O	ALA	B	140	-0.629	-19.888	20.761	1.00	16.15	B O
ATOM	2137	N	ALA	B	141	-0.086	-18.610	18.988	1.00	18.05	B N
ATOM	2138	CA	ALA	B	141	-1.141	-17.619	19.222	1.00	15.47	B C
ATOM	2139	CB	ALA	B	141	-0.968	-16.424	18.239	1.00	13.35	B C
ATOM	2140	C	ALA	B	141	-2.549	-18.251	19.087	1.00	13.73	B C
ATOM	2141	O	ALA	B	141	-3.437	-17.960	19.891	1.00	11.52	B O
ATOM	2142	N	ALA	B	142	-2.759	-19.129	18.117	1.00	13.03	B N
ATOM	2143	CA	ALA	B	142	-4.082	-19.748	17.984	1.00	12.85	B C
ATOM	2144	CB	ALA	B	142	-4.172	-20.640	16.702	1.00	9.67	B C
ATOM	2145	C	ALA	B	142	-4.377	-20.612	19.230	1.00	13.69	B C
ATOM	2146	O	ALA	B	142	-5.476	-20.555	19.776	1.00	13.29	B O
ATOM	2147	N	ARG	B	143	-3.375	-21.368	19.697	1.00	12.18	B N
ATOM	2148	CA	ARG	B	143	-3.589	-22.238	20.854	1.00	16.96	B C
ATOM	2149	CB	ARG	B	143	-2.366	-23.139	21.097	1.00	15.93	B C
ATOM	2150	CG	ARG	B	143	-2.185	-24.193	20.030	1.00	17.31	B C
ATOM	2151	CD	ARG	B	143	-0.846	-24.967	20.308	1.00	21.58	B C
ATOM	2152	NE	ARG	B	143	-0.949	-25.773	21.529	1.00	19.49	B N
ATOM	2153	CZ	ARG	B	143	0.055	-26.485	22.043	1.00	22.35	B C
ATOM	2154	NH1	ARG	B	143	1.232	-26.479	21.451	1.00	17.34	B N
ATOM	2155	NH2	ARG	B	143	-0.130	-27.269	23.100	1.00	21.87	B N
ATOM	2156	C	ARG	B	143	-3.898	-21.438	22.100	1.00	16.79	B C
ATOM	2157	O	ARG	B	143	-4.788	-21.825	22.890	1.00	15.04	B O
ATOM	2158	N	GLN	B	144	-3.184	-20.323	22.273	1.00	17.63	B N
ATOM	2159	CA	GLN	B	144	-3.405	-19.468	23.443	1.00	18.25	B C
ATOM	2160	CB	GLN	B	144	-2.313	-18.420	23.578	1.00	18.56	B C
ATOM	2161	CG	GLN	B	144	-2.434	-17.610	24.870	1.00	20.60	B C
ATOM	2162	CD	GLN	B	144	-2.402	-18.533	26.126	1.00	26.46	B C
ATOM	2163	OE1	GLN	B	144	-1.636	-19.505	26.194	1.00	22.06	B O
ATOM	2164	NE2	GLN	B	144	-3.232	-18.207	27.120	1.00	28.50	B N
ATOM	2165	C	GLN	B	144	-4.765	-18.781	23.359	1.00	17.71	B C
ATOM	2166	O	GLN	B	144	-5.403	-18.530	24.396	1.00	15.83	B O
ATOM	2167	N	HIS	B	145	-5.225	-18.453	22.143	1.00	15.58	B N
ATOM	2168	CA	HIS	B	145	-6.560	-17.841	22.030	1.00	15.11	B C
ATOM	2169	CB	HIS	B	145	-6.869	-17.333	20.590	1.00	15.50	B C
ATOM	2170	CG	HIS	B	145	-6.410	-15.932	20.365	1.00	20.98	B C
ATOM	2171	CD2	HIS	B	145	-6.704	-14.786	21.029	1.00	22.04	B C
ATOM	2172	ND1	HIS	B	145	-5.440	-15.602	19.438	1.00	21.91	B N
ATOM	2173	CE1	HIS	B	145	-5.146	-14.316	19.552	1.00	21.97	B C
ATOM	2174	NE2	HIS	B	145	-5.899	-13.800	20.508	1.00	23.71	B N
ATOM	2175	C	HIS	B	145	-7.596	-18.827	22.474	1.00	11.31	B C
ATOM	2176	O	HIS	B	145	-8.565	-18.458	23.145	1.00	13.02	B O
ATOM	2177	N	ALA	B	146	-7.422	-20.086	22.118	1.00	11.10	B N
ATOM	2178	CA	ALA	B	146	-8.335	-21.140	22.561	1.00	12.90	B C
ATOM	2179	CB	ALA	B	146	-7.966	-22.495	21.936	1.00	12.59	B C
ATOM	2180	C	ALA	B	146	-8.293	-21.290	24.075	1.00	14.75	B C
ATOM	2181	O	ALA	B	146	-9.334	-21.465	24.739	1.00	13.81	B O
ATOM	2182	N	ARG	B	147	-7.086	-21.298	24.623	1.00	14.84	B N
ATOM	2183	CA	ARG	B	147	-6.957	-21.431	26.084	1.00	19.25	B C
ATOM	2184	CB	ARG	B	147	-5.476	-21.527	26.405	1.00	24.32	B C
ATOM	2185	CG	ARG	B	147	-5.126	-21.910	27.805	1.00	33.22	B C
ATOM	2186	CD	ARG	B	147	-4.007	-22.932	27.654	1.00	38.64	B C

Table 9

ATOM	2187	NE	ARG	B	147	-3.094	-22.490	26.610	1.00	32.74	B	N
ATOM	2188	CZ	ARG	B	147	-2.178	-23.236	25.994	1.00	33.23	B	C
ATOM	2189	NH1	ARG	B	147	-2.038	-24.506	26.313	1.00	37.04	B	N
ATOM	2190	NH2	ARG	B	147	-1.392	-22.680	25.055	1.00	28.00	B	N
ATOM	2191	C	ARG	B	147	-7.634	-20.260	26.839	1.00	16.20	B	C
ATOM	2192	O	ARG	B	147	-8.262	-20.465	27.881	1.00	15.46	B	O
ATOM	2193	N	ASP	B	148	-7.501	-19.041	26.326	1.00	14.31	B	N
ATOM	2194	CA	ASP	B	148	-8.135	-17.860	26.920	1.00	15.63	B	C
ATOM	2195	CB	ASP	B	148	-7.750	-16.607	26.132	1.00	20.21	B	C
ATOM	2196	CG	ASP	B	148	-6.274	-16.326	26.184	1.00	29.38	B	C
ATOM	2197	OD1	ASP	B	148	-5.633	-16.794	27.138	1.00	29.04	B	O
ATOM	2198	OD2	ASP	B	148	-5.751	-15.615	25.285	1.00	37.93	B	O
ATOM	2199	C	ASP	B	148	-9.670	-17.973	26.945	1.00	16.92	B	C
ATOM	2200	O	ASP	B	148	-10.331	-17.536	27.927	1.00	18.38	B	O
ATOM	2201	N	VAL	B	149	-10.244	-18.479	25.859	1.00	14.72	B	N
ATOM	2202	CA	VAL	B	149	-11.705	-18.676	25.824	1.00	16.42	B	C
ATOM	2203	CB	VAL	B	149	-12.220	-19.085	24.429	1.00	12.85	B	C
ATOM	2204	CG1	VAL	B	149	-13.746	-19.522	24.518	1.00	11.81	B	C
ATOM	2205	CG2	VAL	B	149	-12.042	-17.857	23.461	1.00	11.24	B	C
ATOM	2206	C	VAL	B	149	-12.119	-19.713	26.860	1.00	14.85	B	C
ATOM	2207	O	VAL	B	149	-13.007	-19.441	27.640	1.00	15.40	B	O
ATOM	2208	N	LEU	B	150	-11.448	-20.857	26.906	1.00	12.84	B	N
ATOM	2209	CA	LEU	B	150	-11.788	-21.882	27.876	1.00	17.00	B	C
ATOM	2210	CB	LEU	B	150	-10.908	-23.115	27.658	1.00	17.94	B	C
ATOM	2211	CG	LEU	B	150	-11.171	-23.822	26.310	1.00	17.18	B	C
ATOM	2212	CD1	LEU	B	150	-10.143	-24.923	26.080	1.00	17.59	B	C
ATOM	2213	CD2	LEU	B	150	-12.556	-24.420	26.309	1.00	18.81	B	C
ATOM	2214	C	LEU	B	150	-11.614	-21.323	29.330	1.00	18.43	B	C
ATOM	2215	O	LEU	B	150	-12.453	-21.546	30.208	1.00	16.56	B	O
ATOM	2216	N	ASP	B	151	-10.549	-20.578	29.564	1.00	19.05	B	N
ATOM	2217	CA	ASP	B	151	-10.326	-19.995	30.899	1.00	22.10	B	C
ATOM	2218	CB	ASP	B	151	-8.991	-19.221	30.955	1.00	26.56	B	C
ATOM	2219	CG	ASP	B	151	-7.773	-20.142	30.853	1.00	35.10	B	C
ATOM	2220	OD1	ASP	B	151	-7.896	-21.335	31.246	1.00	36.53	B	O
ATOM	2221	OD2	ASP	B	151	-6.700	-19.674	30.392	1.00	39.35	B	O
ATOM	2222	C	ASP	B	151	-11.455	-19.030	31.279	1.00	21.54	B	C
ATOM	2223	O	ASP	B	151	-11.908	-19.022	32.416	1.00	20.03	B	O
ATOM	2224	N	GLN	B	152	-11.900	-18.220	30.320	1.00	18.66	B	N
ATOM	2225	CA	GLN	B	152	-12.938	-17.230	30.575	1.00	19.78	B	C
ATOM	2226	CB	GLN	B	152	-12.975	-16.236	29.421	1.00	19.51	B	C
ATOM	2227	CG	GLN	B	152	-11.773	-15.274	29.447	1.00	31.11	B	C
ATOM	2228	CD	GLN	B	152	-11.537	-14.600	28.111	1.00	34.47	B	C
ATOM	2229	OE1	GLN	B	152	-12.473	-14.318	27.382	1.00	35.03	B	O
ATOM	2230	NE2	GLN	B	152	-10.280	-14.330	27.794	1.00	41.27	B	N
ATOM	2231	C	GLN	B	152	-14.303	-17.890	30.755	1.00	17.06	B	C
ATOM	2232	O	GLN	B	152	-15.079	-17.490	31.619	1.00	17.08	B	O
ATOM	2233	N	GLY	B	153	-14.547	-18.928	29.960	1.00	16.09	B	N
ATOM	2234	CA	GLY	B	153	-15.786	-19.670	30.027	1.00	17.09	B	C
ATOM	2235	C	GLY	B	153	-16.841	-19.256	29.008	1.00	18.36	B	C
ATOM	2236	O	GLY	B	153	-17.199	-18.103	28.905	1.00	20.78	B	O
ATOM	2237	N	LEU	B	154	-17.363	-20.221	28.268	1.00	16.83	B	N
ATOM	2238	CA	LEU	B	154	-18.409	-19.950	27.285	1.00	19.12	B	C
ATOM	2239	CB	LEU	B	154	-18.430	-21.056	26.233	1.00	19.17	B	C
ATOM	2240	CG	LEU	B	154	-17.246	-21.145	25.270	1.00	24.89	B	C
ATOM	2241	CD1	LEU	B	154	-17.262	-22.439	24.476	1.00	25.93	B	C
ATOM	2242	CD2	LEU	B	154	-17.333	-19.998	24.370	1.00	19.18	B	C
ATOM	2243	C	LEU	B	154	-19.812	-19.868	27.901	1.00	18.87	B	C

ATOM	2244	O	LEU	B	154	-20.066	-20.420	28.976	1.00	15.68	B	O
ATOM	2245	N	LYS	B	155	-20.713	-19.221	27.172	1.00	16.54	B	N
ATOM	2246	CA	LYS	B	155	-22.129	-19.071	27.528	1.00	19.49	B	C
ATOM	2247	CB	LYS	B	155	-22.324	-17.844	28.436	1.00	23.69	B	C
ATOM	2248	CG	LYS	B	155	-21.913	-16.545	27.710	1.00	24.44	B	C
ATOM	2249	CD	LYS	B	155	-21.712	-15.361	28.635	1.00	28.35	B	C
ATOM	2250	CE	LYS	B	155	-20.318	-15.343	29.204	1.00	26.45	B	C
ATOM	2251	NZ	LYS	B	155	-19.261	-14.768	28.326	1.00	20.52	B	N
ATOM	2252	C	LYS	B	155	-22.906	-18.862	26.232	1.00	18.28	B	C
ATOM	2253	O	LYS	B	155	-22.331	-18.509	25.213	1.00	16.22	B	O
ATOM	2254	N	VAL	B	156	-24.208	-19.096	26.265	1.00	18.30	B	N
ATOM	2255	CA	VAL	B	156	-25.054	-18.840	25.094	1.00	15.88	B	C
ATOM	2256	CB	VAL	B	156	-26.302	-19.741	25.093	1.00	15.47	B	C
ATOM	2257	CG1	VAL	B	156	-27.379	-19.226	23.988	1.00	18.12	B	C
ATOM	2258	CG2	VAL	B	156	-25.888	-21.191	24.855	1.00	14.71	B	C
ATOM	2259	C	VAL	B	156	-25.490	-17.421	25.326	1.00	18.37	B	C
ATOM	2260	O	VAL	B	156	-26.073	-17.119	26.368	1.00	17.70	B	O
ATOM	2261	N	GLN	B	157	-25.213	-16.565	24.348	1.00	14.99	B	N
ATOM	2262	CA	GLN	B	157	-25.513	-15.137	24.360	1.00	17.12	B	C
ATOM	2263	CB	GLN	B	157	-24.405	-14.416	23.585	1.00	13.91	B	C
ATOM	2264	CG	GLN	B	157	-24.703	-12.962	23.262	1.00	17.58	B	C
ATOM	2265	CD	GLN	B	157	-24.792	-12.124	24.504	1.00	19.31	B	C
ATOM	2266	OE1	GLN	B	157	-25.790	-11.447	24.755	1.00	17.02	B	O
ATOM	2267	NE2	GLN	B	157	-23.734	-12.148	25.288	1.00	17.50	B	N
ATOM	2268	C	GLN	B	157	-26.824	-14.884	23.651	1.00	18.20	B	C
ATOM	2269	O	GLN	B	157	-27.017	-15.336	22.538	1.00	16.28	B	O
ATOM	2270	N	GLU	B	158	-27.720	-14.133	24.266	1.00	18.45	B	N
ATOM	2271	CA	GLU	B	158	-28.992	-13.847	23.608	1.00	22.22	B	C
ATOM	2272	CB	GLU	B	158	-30.036	-13.441	24.686	1.00	27.37	B	C
ATOM	2273	CG	GLU	B	158	-29.681	-13.925	26.132	1.00	36.73	B	C
ATOM	2274	CD	GLU	B	158	-28.620	-13.039	26.900	1.00	45.70	B	C
ATOM	2275	OE1	GLU	B	158	-28.989	-11.926	27.421	1.00	44.89	B	O
ATOM	2276	OE2	GLU	B	158	-27.424	-13.463	27.000	1.00	33.31	B	O
ATOM	2277	C	GLU	B	158	-28.781	-12.690	22.585	1.00	20.02	B	C
ATOM	2278	O	GLU	B	158	-27.889	-11.851	22.742	1.00	17.99	B	O
ATOM	2279	N	THR	B	159	-29.595	-12.613	21.549	1.00	20.25	B	N
ATOM	2280	CA	THR	B	159	-29.387	-11.517	20.618	1.00	20.54	B	C
ATOM	2281	CB	THR	B	159	-29.921	-11.832	19.265	1.00	22.53	B	C
ATOM	2282	OG1	THR	B	159	-29.112	-12.868	18.679	1.00	24.43	B	O
ATOM	2283	CG2	THR	B	159	-29.872	-10.573	18.406	1.00	17.49	B	C
ATOM	2284	C	THR	B	159	-30.079	-10.260	21.096	1.00	23.02	B	C
ATOM	2285	O	THR	B	159	-31.273	-10.255	21.269	1.00	22.79	B	O
ATOM	2286	N	ILE	B	160	-29.319	-9.204	21.333	1.00	23.01	B	N
ATOM	2287	CA	ILE	B	160	-29.895	-7.937	21.786	1.00	28.28	B	C
ATOM	2288	CB	ILE	B	160	-28.943	-7.211	22.778	1.00	31.75	B	C
ATOM	2289	CG2	ILE	B	160	-29.627	-5.986	23.354	1.00	32.56	B	C
ATOM	2290	CG1	ILE	B	160	-28.522	-8.150	23.909	1.00	32.37	B	C
ATOM	2291	CD1	ILE	B	160	-29.649	-8.567	24.782	1.00	41.09	B	C
ATOM	2292	C	ILE	B	160	-29.941	-7.132	20.490	1.00	29.42	B	C
ATOM	2293	O	ILE	B	160	-28.899	-6.832	19.926	1.00	30.31	B	O
ATOM	2294	N	LEU	B	161	-31.133	-6.790	20.017	1.00	30.85	B	N
ATOM	2295	CA	LEU	B	161	-31.270	-6.057	18.760	1.00	31.88	B	C
ATOM	2296	CB	LEU	B	161	-32.625	-6.330	18.130	1.00	31.54	B	C
ATOM	2297	CG	LEU	B	161	-32.982	-7.782	17.793	1.00	36.76	B	C
ATOM	2298	CD1	LEU	B	161	-34.511	-7.882	17.670	1.00	33.91	B	C
ATOM	2299	CD2	LEU	B	161	-32.277	-8.218	16.495	1.00	32.82	B	C
ATOM	2300	C	LEU	B	161	-31.156	-4.572	18.963	1.00	33.43	B	C

ATOM	2301	O	LEU	B	161	-31.385	-4.058	20.059	1.00	34.51	B	O
ATOM	2302	N	LEU	B	162	-30.786	-3.885	17.898	1.00	33.55	B	N
ATOM	2303	CA	LEU	B	162	-30.689	-2.433	17.928	1.00	38.20	B	C
ATOM	2304	CB	LEU	B	162	-29.663	-1.967	16.893	1.00	36.73	B	C
ATOM	2305	CG	LEU	B	162	-28.223	-2.247	17.323	1.00	37.04	B	C
ATOM	2306	CD1	LEU	B	162	-27.308	-2.364	16.101	1.00	32.99	B	C
ATOM	2307	CD2	LEU	B	162	-27.794	-1.156	18.298	1.00	31.30	B	C
ATOM	2308	C	LEU	B	162	-32.084	-1.904	17.581	1.00	40.15	B	C
ATOM	2309	O	LEU	B	162	-32.484	-0.838	18.089	1.00	43.15	B	O
ATOM	2310	OXT	LEU	B	162	-32.766	-2.574	16.780	1.00	42.07	B	O
TER	2311		LEU	B	162						B	
ATOM	2312	CB	MET	D	1	-12.218	-23.477	6.238	1.00	19.95	D	C
ATOM	2313	CG	MET	D	1	-11.274	-24.591	5.796	1.00	22.58	D	C
ATOM	2314	SD	MET	D	1	-9.609	-24.318	6.428	1.00	25.60	D	S
ATOM	2315	CE	MET	D	1	-8.904	-23.281	5.055	1.00	21.55	D	C
ATOM	2316	C	MET	D	1	-14.350	-24.752	5.898	1.00	22.53	D	C
ATOM	2317	O	MET	D	1	-15.575	-24.627	6.055	1.00	22.75	D	O
ATOM	2318	OXT	MET	D	1	-13.731	-25.833	6.064	1.00	27.21	D	O
ATOM	2319	N	MET	D	1	-14.280	-22.239	5.586	1.00	22.19	D	N
ATOM	2320	CA	MET	D	1	-13.540	-23.522	5.434	1.00	21.53	D	C
TER	2321		MET	D	1						D	
ATOM	2322	O	HOH	W	1	-6.323	-21.600	3.330	1.00	12.82	W	O
ATOM	2323	O	HOH	W	2	-15.676	-19.327	-17.672	1.00	17.28	W	O
ATOM	2324	O	HOH	W	3	-3.646	-14.994	5.492	1.00	15.89	W	O
ATOM	2325	O	HOH	W	4	-27.970	-33.230	5.632	1.00	15.58	W	O
ATOM	2326	O	HOH	W	5	-0.339	-22.145	-4.385	1.00	17.64	W	O
ATOM	2327	O	HOH	W	6	-12.660	3.370	4.524	1.00	17.48	W	O
ATOM	2328	O	HOH	W	7	-27.257	-11.846	13.978	1.00	16.91	W	O
ATOM	2329	O	HOH	W	8	-8.290	-19.895	4.272	1.00	16.01	W	O
ATOM	2330	O	HOH	W	9	-3.736	-12.437	18.062	1.00	19.68	W	O
ATOM	2331	O	HOH	W	10	-25.134	-20.578	28.730	1.00	18.76	W	O
ATOM	2332	O	HOH	W	11	0.578	-21.162	22.910	1.00	18.04	W	O
ATOM	2333	O	HOH	W	12	-4.913	-4.984	0.181	1.00	17.36	W	O
ATOM	2334	O	HOH	W	13	-29.800	-15.435	18.797	1.00	17.56	W	O
ATOM	2335	O	HOH	W	14	-33.283	-37.917	4.665	1.00	14.42	W	O
ATOM	2336	O	HOH	W	15	-1.787	-21.994	-11.783	1.00	22.77	W	O
ATOM	2337	O	HOH	W	16	-17.857	-30.051	25.379	1.00	22.50	W	O
ATOM	2338	O	HOH	W	17	-1.025	-20.309	-7.016	1.00	16.41	W	O
ATOM	2339	O	HOH	W	18	-10.053	-8.632	8.527	1.00	17.48	W	O
ATOM	2340	O	HOH	W	19	-20.215	-9.187	14.033	1.00	21.19	W	O
ATOM	2341	O	HOH	W	20	-29.996	-13.911	-1.622	1.00	20.26	W	O
ATOM	2342	O	HOH	W	21	-9.149	-21.608	-15.117	1.00	22.61	W	O
ATOM	2343	O	HOH	W	22	-27.927	-26.131	14.202	1.00	16.73	W	O
ATOM	2344	O	HOH	W	23	-14.407	-8.227	-16.472	1.00	19.45	W	O
ATOM	2345	O	HOH	W	24	-6.146	-1.827	2.938	1.00	30.03	W	O
ATOM	2346	O	HOH	W	25	-6.017	-13.993	8.046	1.00	19.98	W	O
ATOM	2347	O	HOH	W	26	-17.565	-15.520	30.242	1.00	21.73	W	O
ATOM	2348	O	HOH	W	27	-24.737	-13.251	27.745	1.00	25.97	W	O
ATOM	2349	O	HOH	W	28	-12.676	-20.165	4.657	1.00	20.30	W	O
ATOM	2350	O	HOH	W	29	-8.315	-7.934	-6.479	1.00	19.23	W	O
ATOM	2351	O	HOH	W	30	2.192	-17.614	1.244	1.00	20.83	W	O
ATOM	2352	O	HOH	W	31	-29.680	-29.038	15.236	1.00	24.37	W	O
ATOM	2353	O	HOH	W	32	-23.818	-3.501	-0.255	1.00	27.22	W	O
ATOM	2354	O	HOH	W	33	-12.063	-32.202	23.601	1.00	27.42	W	O
ATOM	2355	O	HOH	W	34	-24.637	-32.773	-2.427	1.00	22.76	W	O
ATOM	2356	O	HOH	W	35	-8.102	-30.273	13.249	1.00	22.69	W	O
ATOM	2357	O	HOH	W	36	-3.466	-12.423	-8.334	1.00	25.57	W	O

ATOM	2358	O	HOH W	37	3.007	-21.481	13.649	1.00	20.68	W	O
ATOM	2359	O	HOH W	38	3.668	-20.811	16.601	1.00	29.88	W	O
ATOM	2360	O	HOH W	39	-8.122	-29.329	10.598	1.00	18.94	W	O
ATOM	2361	O	HOH W	40	-9.575	-32.888	12.889	1.00	20.42	W	O
ATOM	2362	O	HOH W	41	-24.641	-15.112	6.798	1.00	28.94	W	O
ATOM	2363	O	HOH W	42	-26.814	-3.628	-6.318	1.00	28.48	W	O
ATOM	2364	O	HOH W	43	-22.201	-25.248	-12.428	1.00	30.26	W	O
ATOM	2365	O	HOH W	44	-17.769	8.123	-7.360	1.00	26.80	W	O
ATOM	2366	O	HOH W	45	-29.512	-18.969	-6.372	1.00	16.08	W	O
ATOM	2367	O	HOH W	46	-29.283	-15.404	4.439	1.00	28.86	W	O
ATOM	2368	O	HOH W	47	-35.284	-21.063	0.821	1.00	28.18	W	O
ATOM	2369	O	HOH W	48	-1.322	-15.342	-0.247	1.00	25.65	W	O
ATOM	2370	O	HOH W	49	-8.156	-21.629	-0.177	1.00	17.20	W	O
ATOM	2371	O	HOH W	50	-40.089	-20.927	8.015	1.00	22.24	W	O
ATOM	2372	O	HOH W	51	-17.003	-9.236	10.296	1.00	25.57	W	O
ATOM	2373	O	HOH W	52	-10.807	4.291	2.279	1.00	27.73	W	O
ATOM	2374	O	HOH W	53	-18.363	0.248	-11.120	1.00	22.19	W	O
ATOM	2375	O	HOH W	54	-22.033	-33.793	8.545	1.00	27.60	W	O
ATOM	2376	O	HOH W	55	-13.601	5.400	-1.558	1.00	22.19	W	O
ATOM	2377	O	HOH W	56	-16.329	-22.781	28.271	1.00	29.84	W	O
ATOM	2378	O	HOH W	57	-9.344	-15.742	22.735	1.00	21.06	W	O
ATOM	2379	O	HOH W	58	-29.293	-11.179	24.608	1.00	45.01	W	O
ATOM	2380	O	HOH W	59	-28.966	-16.479	21.044	1.00	29.46	W	O
ATOM	2381	O	HOH W	60	-21.304	-5.576	26.800	1.00	23.43	W	O
ATOM	2382	O	HOH W	61	-26.526	-14.455	-12.337	1.00	27.48	W	O
ATOM	2383	O	HOH W	62	2.843	-26.541	11.086	1.00	34.05	W	O
ATOM	2384	O	HOH W	63	0.142	-12.203	4.214	1.00	34.92	W	O
ATOM	2385	O	HOH W	64	-19.851	-31.437	10.088	1.00	20.77	W	O
ATOM	2386	O	HOH W	65	-10.928	-6.655	11.302	1.00	18.73	W	O
ATOM	2387	O	HOH W	66	-23.154	-12.314	4.066	1.00	25.77	W	O
ATOM	2388	O	HOH W	67	-18.976	-2.644	20.085	1.00	19.16	W	O
ATOM	2389	O	HOH W	68	-27.527	-20.311	-7.657	1.00	22.10	W	O
ATOM	2390	O	HOH W	69	-10.535	-23.701	-15.539	1.00	29.56	W	O
ATOM	2391	O	HOH W	70	-26.985	-28.630	15.153	1.00	24.18	W	O
ATOM	2392	O	HOH W	71	-4.572	-2.456	1.120	1.00	28.49	W	O
ATOM	2393	O	HOH W	72	-12.536	-12.809	-18.178	1.00	24.05	W	O
ATOM	2394	O	HOH W	73	-22.151	-7.032	-14.740	1.00	35.02	W	O
ATOM	2395	O	HOH W	74	-12.460	5.500	0.944	1.00	27.81	W	O
ATOM	2396	O	HOH W	75	3.027	-28.110	-1.447	1.00	25.13	W	O
ATOM	2397	O	HOH W	76	-9.336	-33.092	10.515	1.00	39.69	W	O
ATOM	2398	O	HOH W	77	-17.715	6.273	1.516	1.00	23.67	W	O
ATOM	2399	O	HOH W	78	-5.945	-6.415	-6.383	1.00	24.64	W	O
ATOM	2400	O	HOH W	79	-22.706	-9.690	-14.958	1.00	21.94	W	O
ATOM	2401	O	HOH W	80	-7.872	-19.983	-16.846	1.00	25.51	W	O
ATOM	2402	O	HOH W	81	-13.527	-27.636	3.924	1.00	34.02	W	O
ATOM	2403	O	HOH W	82	-8.301	-13.806	-15.767	1.00	25.80	W	O
ATOM	2404	O	HOH W	83	2.220	-21.582	-5.625	1.00	29.59	W	O
ATOM	2405	O	HOH W	84	-26.057	-22.297	-6.379	1.00	27.52	W	O
ATOM	2406	O	HOH W	85	-34.567	-25.481	17.688	1.00	32.00	W	O
ATOM	2407	O	HOH W	86	-31.949	-15.418	4.215	1.00	38.46	W	O
ATOM	2408	O	HOH W	87	-2.523	-15.413	21.268	1.00	28.29	W	O
ATOM	2409	O	HOH W	88	-7.014	-24.211	2.162	1.00	34.99	W	O
ATOM	2410	O	HOH W	89	-0.109	-14.175	15.700	1.00	34.96	W	O
ATOM	2411	O	HOH W	90	-7.259	-14.264	23.731	1.00	34.72	W	O
ATOM	2412	O	HOH W	91	-12.596	-2.891	-15.675	1.00	33.09	W	O
ATOM	2413	O	HOH W	92	-10.412	-20.605	3.146	1.00	35.31	W	O
ATOM	2414	O	HOH W	93	-21.972	1.260	-6.590	1.00	35.82	W	O

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ATOM   2415  O   HOH W  94     -18.466  -4.550  22.948  1.00 25.50      W    O
ATOM   2416  O   HOH W  95     -22.660 -31.058  20.821  1.00 29.78      W    O
ATOM   2417  O   HOH W  96     -12.459 -10.253  25.080  1.00 32.04      W    O
ATOM   2418  O   HOH W  97     -14.769 -30.372   4.828  1.00 36.56      W    O
ATOM   2419  O   HOH W  98     -14.393 -23.625  29.874  1.00 27.61      W    O
ATOM   2420  O   HOH W  99      -7.547  -9.271  -8.500  1.00 33.35      W    O
ATOM   2421  O   HOH W 100     -22.468 -21.759  30.334  1.00 45.75      W    O
ATOM   2422  O   HOH W 101     -31.753 -14.454  21.413  1.00 36.20      W    O
ATOM   2423  O   HOH W 102     -24.436   2.890   2.633  1.00 43.49      W    O
ATOM   2424  O   HOH W 103     -11.983  -5.298  17.776  1.00 31.76      W    O
ATOM   2425  O   HOH W 104     -26.239 -29.238  17.659  1.00 37.51      W    O
ATOM   2426  O   HOH W 105      -3.315 -31.948  -8.931  1.00 44.52      W    O
ATOM   2427  O   HOH W 106     -27.317 -19.030  -9.935  1.00 32.80      W    O
ATOM   2428  O   HOH W 107     -23.804  -4.366 -11.451  1.00 29.55      W    O
ATOM   2429  O   HOH W 108     -16.547   5.871   3.759  1.00 35.40      W    O
ATOM   2430  O   HOH W 109      -0.392 -11.498   9.185  1.00 31.41      W    O
ATOM   2431  O   HOH W 110     -32.007 -31.231   9.698  1.00 27.92      W    O
ATOM   2432  O   HOH W 111     -23.944  -4.658   1.909  1.00 34.54      W    O
ATOM   2433  O   HOH W 112     -18.017   4.153   5.779  1.00 29.62      W    O
ATOM   2434  O   HOH W 113     -26.383 -22.573  28.379  1.00 34.22      W    O
ATOM   2435  O   HOH W 114     -33.659 -19.823  -0.845  1.00 38.97      W    O
ATOM   2436  O   HOH W 115      -7.078 -17.689 -16.248  1.00 41.05      W    O
ATOM   2437  O   HOH W 116      -1.267 -13.045  17.858  1.00 35.00      W    O
ATOM   2438  O   HOH W 117     -25.933  -9.554  27.015  1.00 33.64      W    O
ATOM   2439  O   HOH W 118      -5.798 -32.057  13.508  1.00 38.33      W    O
ATOM   2440  O   HOH W 119     -15.098 -10.451 -15.463  1.00 32.49      W    O
ATOM   2441  O   HOH W 120      -5.045  -8.683  -8.570  1.00 40.91      W    O
ATOM   2442  O   HOH W 121     -31.207 -33.196  -4.200  1.00 38.36      W    O
ATOM   2443  O   HOH W 122     -24.094 -16.581 -19.058  1.00 38.00      W    O
ATOM   2444  O   HOH W 123     -30.948 -22.857  20.374  1.00 28.82      W    O
ATOM   2445  O   HOH W 124       1.436 -25.016 -11.707  1.00 33.77      W    O
TER    2446      HOH W 124                                               W
ATOM   2447 ZN   ZN  C   1     -17.466  -5.413  10.428  1.00 35.22      C    N
ATOM   2448 ZN   ZN  C   2      -4.796 -21.560   4.692  1.00 16.78      C    N
TER    2449      ZN  C   2                                               C
END
```

```
REMARK coordinates from restrained individual B-factor refinement
REMARK refinement resolution: 30.0 - 2.1 A
REMARK starting r= 0.2133 free_r= 0.2705
REMARK final    r= 0.2124 free_r= 0.2707
REMARK B rmsd for bonded mainchain atoms=  4.349  target= 1.5
REMARK B rmsd for bonded sidechain atoms=  7.389  target= 2.0
REMARK B rmsd for angle mainchain atoms=  4.681  target= 2.0
REMARK B rmsd for angle sidechain atoms=  9.462  target= 2.5
REMARK wa= 2.71679
REMARK rweight=1E-02
REMARK target= mlf  steps= 20
REMARK sg= C2 a= 51.19 b= 70.14 c= 49.73 alpha= 90 beta= 112.03 gamma= 90
REMARK parameter file 1  : MSI_CNX_TOPPAR:protein_rep.param
REMARK parameter file 2  : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 3  : mse.par
REMARK parameter file 4  : ion.param
REMARK molecular structure file: 80b1_c2_best2_anneal1_1min2.psf
REMARK input coordinates: 80b1_c2_best3min.pdb
REMARK reflection file= 80b1c1_semet_high_c2.cv
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 2.1
REMARK initial B-factor correction applied to fobs :
REMARK   B11=  -2.460 B22=  -0.579 B33=   3.040
REMARK   B12=   0.000 B13=  -2.374 B23=   0.000
REMARK B-factor correction applied to coordinate array B:   -0.047
REMARK bulk solvent: (Mask) density level= 0.392813 e/A^3, B-factor= 44.9713 A^2
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
REMARK theoretical total number of refl. in resol. range:      9567 ( 100.0 % )
REMARK number of unobserved reflections (no entry or |F|=0):    200 (   2.1 % )
REMARK number of reflections rejected:                             0 (   0.0 % )
REMARK total number of reflections used:                        9367 (  97.9 % )
REMARK number of reflections in working set:                    8391 (  87.7 % )
REMARK number of reflections in test set:                        976 (  10.2 % )
REMARK FILENAME="80b1_c2_best3bind.pdb"
REMARK DATE:Dec-04-2000  05:33:39       created by user: hlewis
REMARK Written by CNX VERSION:2000.1
ATOM      1  CB  LEU A  12       1.202 -15.985  30.306  1.00 11.21      A    C
ATOM      2  CG  LEU A  12       1.534 -15.123  31.550  1.00 25.41      A    C
ATOM      3  CD1 LEU A  12       1.270 -15.927  32.824  1.00 12.14      A    C
ATOM      4  CD2 LEU A  12       3.008 -14.681  31.540  1.00 14.02      A    C
ATOM      5  C   LEU A  12      -1.013 -14.900  30.138  1.00 18.97      A    C
ATOM      6  O   LEU A  12      -0.938 -14.089  29.223  1.00 13.61      A    O
ATOM      7  N   LEU A  12      -0.502 -16.969  28.763  1.00 20.16      A    N
ATOM      8  CA  LEU A  12      -0.291 -16.244  30.064  1.00 21.58      A    C
ATOM      9  N   ASP A  13      -1.708 -14.664  31.238  1.00 15.47      A    N
ATOM     10  CA  ASP A  13      -2.398 -13.395  31.454  1.00 11.06      A    C
ATOM     11  CB  ASP A  13      -3.609 -13.626  32.368  1.00 14.87      A    C
ATOM     12  CG  ASP A  13      -4.478 -12.403  32.499  1.00 20.40      A    C
ATOM     13  OD1 ASP A  13      -3.986 -11.300  32.196  1.00 18.20      A    O
ATOM     14  OD2 ASP A  13      -5.643 -12.544  32.922  1.00 19.00      A    O
ATOM     15  C   ASP A  13      -1.346 -12.489  32.135  1.00 15.27      A    C
ATOM     16  O   ASP A  13      -1.034 -12.652  33.316  1.00 14.53      A    O
ATOM     17  N   HIS A  14      -0.792 -11.545  31.380  1.00 13.06      A    N
ATOM     18  CA  HIS A  14       0.247 -10.666  31.893  1.00 17.76      A    C
ATOM     19  CB  HIS A  14       0.897  -9.910  30.727  1.00 15.86      A    C
ATOM     20  CG  HIS A  14       1.732 -10.780  29.836  1.00 12.23      A    C
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ATOM	21	CD2	HIS	A	14	1.389	-11.772	28.980	1.00	16.27	A	C
ATOM	22	ND1	HIS	A	14	3.105	-10.681	29.772	1.00	17.97	A	N
ATOM	23	CE1	HIS	A	14	3.572	-11.571	28.917	1.00	14.94	A	C
ATOM	24	NE2	HIS	A	14	2.552	-12.247	28.422	1.00	17.28	A	N
ATOM	25	C	HIS	A	14	-0.140	-9.686	33.004	1.00	13.98	A	C
ATOM	26	O	HIS	A	14	0.739	-9.179	33.695	1.00	16.34	A	O
ATOM	27	N	THR	A	15	-1.435	-9.437	33.194	1.00	13.20	A	N
ATOM	28	CA	THR	A	15	-1.882	-8.510	34.241	1.00	14.09	A	C
ATOM	29	CB	THR	A	15	-3.308	-7.941	33.955	1.00	13.19	A	C
ATOM	30	OG1	THR	A	15	-4.249	-9.030	33.941	1.00	16.49	A	O
ATOM	31	CG2	THR	A	15	-3.350	-7.210	32.620	1.00	21.98	A	C
ATOM	32	C	THR	A	15	-1.976	-9.190	35.603	1.00	18.04	A	C
ATOM	33	O	THR	A	15	-2.137	-8.514	36.618	1.00	21.15	A	O
ATOM	34	N	LYS	A	16	-1.885	-10.517	35.630	1.00	18.89	A	N
ATOM	35	CA	LYS	A	16	-2.032	-11.255	36.885	1.00	20.56	A	C
ATOM	36	CB	LYS	A	16	-2.967	-12.454	36.662	1.00	25.02	A	C
ATOM	37	CG	LYS	A	16	-4.344	-12.065	36.091	1.00	27.60	A	C
ATOM	38	CD	LYS	A	16	-5.482	-12.866	36.734	1.00	31.48	A	C
ATOM	39	CE	LYS	A	16	-6.868	-12.357	36.304	1.00	22.11	A	C
ATOM	40	NZ	LYS	A	16	-7.147	-10.952	36.759	1.00	24.82	A	N
ATOM	41	C	LYS	A	16	-0.756	-11.723	37.592	1.00	20.42	A	C
ATOM	42	O	LYS	A	16	-0.821	-12.203	38.722	1.00	18.79	A	O
ATOM	43	N	VAL	A	17	0.400	-11.563	36.954	1.00	10.52	A	N
ATOM	44	CA	VAL	A	17	1.655	-11.995	37.563	1.00	11.56	A	C
ATOM	45	CB	VAL	A	17	2.719	-12.323	36.480	1.00	10.19	A	C
ATOM	46	CG1	VAL	A	17	2.171	-13.387	35.522	1.00	17.68	A	C
ATOM	47	CG2	VAL	A	17	3.108	-11.058	35.722	1.00	5.48	A	C
ATOM	48	C	VAL	A	17	2.236	-10.978	38.543	1.00	15.17	A	C
ATOM	49	O	VAL	A	17	1.870	-9.801	38.499	1.00	14.41	A	O
ATOM	50	N	LYS	A	18	3.149	-11.436	39.412	1.00	14.42	A	N
ATOM	51	CA	LYS	A	18	3.803	-10.577	40.419	1.00	19.83	A	C
ATOM	52	CB	LYS	A	18	3.423	-11.037	41.836	1.00	13.62	A	C
ATOM	53	CG	LYS	A	18	1.942	-11.258	42.033	1.00	20.74	A	C
ATOM	54	CD	LYS	A	18	1.178	-9.974	41.792	1.00	15.96	A	C
ATOM	55	CE	LYS	A	18	-0.326	-10.195	41.858	1.00	21.36	A	C
ATOM	56	NZ	LYS	A	18	-0.977	-8.853	41.770	1.00	12.29	A	N
ATOM	57	C	LYS	A	18	5.324	-10.625	40.296	1.00	13.39	A	C
ATOM	58	O	LYS	A	18	5.952	-11.520	40.866	1.00	13.10	A	O
ATOM	59	N	ALA	A	19	5.915	-9.680	39.556	1.00	11.07	A	N
ATOM	60	CA	ALA	A	19	7.376	-9.659	39.363	1.00	14.29	A	C
ATOM	61	CB	ALA	A	19	7.762	-8.761	38.165	1.00	6.42	A	C
ATOM	62	C	ALA	A	19	8.090	-9.162	40.609	1.00	15.85	A	C
ATOM	63	O	ALA	A	19	7.516	-8.421	41.412	1.00	13.56	A	O
ATOM	64	N	PRO	A	20	9.354	-9.573	40.800	1.00	16.30	A	N
ATOM	65	CD	PRO	A	20	10.162	-9.069	41.934	1.00	14.70	A	C
ATOM	66	CA	PRO	A	20	10.142	-10.458	39.944	1.00	7.69	A	C
ATOM	67	CB	PRO	A	20	11.568	-10.103	40.320	1.00	15.48	A	C
ATOM	68	CG	PRO	A	20	11.453	-9.864	41.811	1.00	12.79	A	C
ATOM	69	C	PRO	A	20	9.824	-11.927	40.209	1.00	10.91	A	C
ATOM	70	O	PRO	A	20	9.408	-12.290	41.302	1.00	12.03	A	O
ATOM	71	N	TYR	A	21	10.038	-12.787	39.221	1.00	8.15	A	N
ATOM	72	CA	TYR	A	21	9.725	-14.187	39.432	1.00	4.83	A	C
ATOM	73	CB	TYR	A	21	8.192	-14.387	39.404	1.00	4.61	A	C
ATOM	74	CG	TYR	A	21	7.554	-14.085	38.051	1.00	8.06	A	C
ATOM	75	CD1	TYR	A	21	7.792	-14.909	36.947	1.00	10.92	A	C
ATOM	76	CE1	TYR	A	21	7.232	-14.632	35.715	1.00	8.21	A	C
ATOM	77	CD2	TYR	A	21	6.731	-12.984	37.876	1.00	7.75	A	C

ATOM	78	CE2	TYR	A	21	6.151	-12.699	36.635	1.00	8.09	A	C
ATOM	79	CZ	TYR	A	21	6.415	-13.526	35.559	1.00	11.02	A	C
ATOM	80	OH	TYR	A	21	5.917	-13.238	34.303	1.00	12.34	A	O
ATOM	81	C	TYR	A	21	10.359	-15.062	38.385	1.00	11.12	A	C
ATOM	82	O	TYR	A	21	10.946	-14.579	37.411	1.00	8.07	A	O
ATOM	83	N	VAL	A	22	10.238	-16.362	38.614	1.00	9.60	A	N
ATOM	84	CA	VAL	A	22	10.698	-17.382	37.687	1.00	12.03	A	C
ATOM	85	CB	VAL	A	22	11.732	-18.336	38.340	1.00	16.41	A	C
ATOM	86	CG1	VAL	A	22	11.966	-19.506	37.448	1.00	9.18	A	C
ATOM	87	CG2	VAL	A	22	13.060	-17.591	38.591	1.00	12.08	A	C
ATOM	88	C	VAL	A	22	9.407	-18.152	37.377	1.00	10.70	A	C
ATOM	89	O	VAL	A	22	8.623	-18.442	38.286	1.00	15.17	A	O
ATOM	90	N	ARG	A	23	9.177	-18.475	36.108	1.00	10.43	A	N
ATOM	91	CA	ARG	A	23	7.962	-19.190	35.719	1.00	6.14	A	C
ATOM	92	CB	ARG	A	23	6.892	-18.161	35.304	1.00	7.14	A	C
ATOM	93	CG	ARG	A	23	5.507	-18.722	34.942	1.00	14.43	A	C
ATOM	94	CD	ARG	A	23	4.612	-17.632	34.341	1.00	10.31	A	C
ATOM	95	NE	ARG	A	23	5.133	-17.101	33.066	1.00	5.97	A	N
ATOM	96	CZ	ARG	A	23	4.857	-17.606	31.864	1.00	5.65	A	C
ATOM	97	NH1	ARG	A	23	4.062	-18.657	31.742	1.00	10.55	A	N
ATOM	98	NH2	ARG	A	23	5.363	-17.045	30.775	1.00	9.92	A	N
ATOM	99	C	ARG	A	23	8.223	-20.158	34.549	1.00	6.30	A	C
ATOM	100	O	ARG	A	23	8.893	-19.802	33.574	1.00	9.63	A	O
ATOM	101	N	LEU	A	24	7.715	-21.380	34.634	1.00	6.11	A	N
ATOM	102	CA	LEU	A	24	7.869	-22.325	33.518	1.00	6.79	A	C
ATOM	103	CB	LEU	A	24	7.392	-23.726	33.943	1.00	10.98	A	C
ATOM	104	CG	LEU	A	24	7.467	-24.850	32.894	1.00	8.52	A	C
ATOM	105	CD1	LEU	A	24	8.913	-25.238	32.643	1.00	8.15	A	C
ATOM	106	CD2	LEU	A	24	6.633	-26.060	33.396	1.00	7.41	A	C
ATOM	107	C	LEU	A	24	6.936	-21.747	32.443	1.00	12.56	A	C
ATOM	108	O	LEU	A	24	5.743	-21.576	32.704	1.00	9.34	A	O
ATOM	109	N	ALA	A	25	7.458	-21.411	31.263	1.00	12.63	A	N
ATOM	110	CA	ALA	A	25	6.598	-20.826	30.225	1.00	11.45	A	C
ATOM	111	CB	ALA	A	25	7.346	-19.715	29.476	1.00	5.52	A	C
ATOM	112	C	ALA	A	25	6.091	-21.867	29.231	1.00	17.93	A	C
ATOM	113	O	ALA	A	25	5.135	-21.609	28.491	1.00	17.14	A	O
ATOM	114	N	GLY	A	26	6.733	-23.034	29.219	1.00	17.25	A	N
ATOM	115	CA	GLY	A	26	6.332	-24.117	28.322	1.00	18.72	A	C
ATOM	116	C	GLY	A	26	7.329	-25.274	28.274	1.00	17.17	A	C
ATOM	117	O	GLY	A	26	8.454	-25.164	28.774	1.00	10.93	A	O
ATOM	118	N	VAL	A	27	6.921	-26.394	27.688	1.00	9.85	A	N
ATOM	119	CA	VAL	A	27	7.804	-27.542	27.599	1.00	15.63	A	C
ATOM	120	CB	VAL	A	27	7.459	-28.632	28.656	1.00	25.40	A	C
ATOM	121	CG1	VAL	A	27	8.517	-29.726	28.632	1.00	23.62	A	C
ATOM	122	CG2	VAL	A	27	7.405	-28.018	30.042	1.00	18.05	A	C
ATOM	123	C	VAL	A	27	7.674	-28.144	26.216	1.00	17.30	A	C
ATOM	124	O	VAL	A	27	6.564	-28.328	25.710	1.00	16.09	A	O
ATOM	125	N	LYS	A	28	8.822	-28.419	25.606	1.00	18.02	A	N
ATOM	126	CA	LYS	A	28	8.910	-29.009	24.266	1.00	17.84	A	C
ATOM	127	CB	LYS	A	28	9.826	-28.161	23.388	1.00	18.11	A	C
ATOM	128	CG	LYS	A	28	9.165	-27.488	22.199	1.00	38.06	A	C
ATOM	129	CD	LYS	A	28	9.063	-28.405	21.003	1.00	28.44	A	C
ATOM	130	CE	LYS	A	28	8.228	-27.745	19.892	1.00	47.24	A	C
ATOM	131	NZ	LYS	A	28	6.880	-27.225	20.383	1.00	30.45	A	N
ATOM	132	C	LYS	A	28	9.534	-30.386	24.409	1.00	17.66	A	C
ATOM	133	O	LYS	A	28	10.611	-30.515	24.991	1.00	16.68	A	O
ATOM	134	N	THR	A	29	8.870	-31.423	23.905	1.00	19.74	A	N

ATOM	135	CA	THR	A	29	9.455	-32.756	23.975	1.00	16.79	A	C
ATOM	136	CB	THR	A	29	8.392	-33.851	24.144	1.00	22.21	A	C
ATOM	137	OG1	THR	A	29	7.633	-33.974	22.937	1.00	40.63	A	O
ATOM	138	CG2	THR	A	29	7.477	-33.501	25.265	1.00	8.51	A	C
ATOM	139	C	THR	A	29	10.176	-32.976	22.658	1.00	19.18	A	C
ATOM	140	O	THR	A	29	9.665	-32.615	21.607	1.00	12.66	A	O
ATOM	141	N	THR	A	30	11.365	-33.566	22.710	1.00	12.83	A	N
ATOM	142	CA	THR	A	30	12.146	-33.813	21.500	1.00	10.06	A	C
ATOM	143	CB	THR	A	30	13.660	-33.914	21.840	1.00	14.16	A	C
ATOM	144	OG1	THR	A	30	13.869	-35.068	22.659	1.00	16.29	A	O
ATOM	145	CG2	THR	A	30	14.143	-32.688	22.612	1.00	12.48	A	C
ATOM	146	C	THR	A	30	11.702	-35.171	20.921	1.00	11.85	A	C
ATOM	147	O	THR	A	30	10.978	-35.913	21.581	1.00	17.59	A	O
ATOM	148	N	PRO	A	31	12.149	-35.521	19.701	1.00	15.05	A	N
ATOM	149	CD	PRO	A	31	12.907	-34.660	18.771	1.00	23.02	A	C
ATOM	150	CA	PRO	A	31	11.790	-36.793	19.050	1.00	14.94	A	C
ATOM	151	CB	PRO	A	31	12.559	-36.731	17.725	1.00	21.49	A	C
ATOM	152	CG	PRO	A	31	12.558	-35.246	17.412	1.00	19.11	A	C
ATOM	153	C	PRO	A	31	12.160	-38.036	19.866	1.00	18.14	A	C
ATOM	154	O	PRO	A	31	11.447	-39.031	19.846	1.00	9.24	A	O
ATOM	155	N	LYS	A	32	13.288	-37.988	20.564	1.00	18.28	A	N
ATOM	156	CA	LYS	A	32	13.704	-39.128	21.377	1.00	22.04	A	C
ATOM	157	CB	LYS	A	32	15.223	-39.223	21.427	1.00	22.47	A	C
ATOM	158	CG	LYS	A	32	15.786	-39.689	20.102	1.00	29.33	A	C
ATOM	159	CD	LYS	A	32	17.252	-39.997	20.175	1.00	31.66	A	C
ATOM	160	CE	LYS	A	32	17.738	-40.492	18.826	1.00	33.58	A	C
ATOM	161	NZ	LYS	A	32	17.437	-39.488	17.771	1.00	37.32	A	N
ATOM	162	C	LYS	A	32	13.131	-39.109	22.780	1.00	17.37	A	C
ATOM	163	O	LYS	A	32	13.458	-39.953	23.599	1.00	15.66	A	O
ATOM	164	N	GLY	A	33	12.268	-38.142	23.071	1.00	16.16	A	N
ATOM	165	CA	GLY	A	33	11.656	-38.135	24.386	1.00	13.41	A	C
ATOM	166	C	GLY	A	33	12.286	-37.286	25.465	1.00	14.65	A	C
ATOM	167	O	GLY	A	33	11.927	-37.433	26.628	1.00	14.03	A	O
ATOM	168	N	ASP	A	34	13.230	-36.414	25.114	1.00	14.77	A	N
ATOM	169	CA	ASP	A	34	13.832	-35.539	26.118	1.00	13.42	A	C
ATOM	170	CB	ASP	A	34	15.214	-35.051	25.686	1.00	22.86	A	C
ATOM	171	CG	ASP	A	34	16.305	-36.051	25.981	1.00	32.72	A	C
ATOM	172	OD1	ASP	A	34	16.448	-36.463	27.158	1.00	45.77	A	O
ATOM	173	OD2	ASP	A	34	17.028	-36.420	25.032	1.00	46.21	A	O
ATOM	174	C	ASP	A	34	12.922	-34.330	26.256	1.00	17.89	A	C
ATOM	175	O	ASP	A	34	12.062	-34.096	25.406	1.00	18.54	A	O
ATOM	176	N	GLN	A	35	13.093	-33.555	27.323	1.00	16.15	A	N
ATOM	177	CA	GLN	A	35	12.264	-32.369	27.474	1.00	12.73	A	C
ATOM	178	CB	GLN	A	35	11.420	-32.448	28.727	1.00	11.28	A	C
ATOM	179	CG	GLN	A	35	10.081	-33.141	28.492	1.00	23.90	A	C
ATOM	180	CD	GLN	A	35	9.245	-33.172	29.745	1.00	34.90	A	C
ATOM	181	OE1	GLN	A	35	9.567	-33.875	30.694	1.00	36.53	A	O
ATOM	182	NE2	GLN	A	35	8.171	-32.392	29.763	1.00	44.71	A	N
ATOM	183	C	GLN	A	35	13.075	-31.088	27.490	1.00	18.98	A	C
ATOM	184	O	GLN	A	35	14.173	-31.040	28.054	1.00	16.19	A	O
ATOM	185	N	ILE	A	36	12.544	-30.073	26.816	1.00	8.14	A	N
ATOM	186	CA	ILE	A	36	13.179	-28.773	26.777	1.00	13.93	A	C
ATOM	187	CB	ILE	A	36	13.325	-28.254	25.347	1.00	15.45	A	C
ATOM	188	CG2	ILE	A	36	13.986	-26.879	25.360	1.00	6.91	A	C
ATOM	189	CG1	ILE	A	36	14.186	-29.226	24.538	1.00	15.85	A	C
ATOM	190	CD1	ILE	A	36	14.493	-28.752	23.137	1.00	29.73	A	C
ATOM	191	C	ILE	A	36	12.244	-27.875	27.569	1.00	16.16	A	C

ATOM	192	O	ILE	A	36	11.116	-27.637	27.156	1.00	16.68	A	O
ATOM	193	N	SER	A	37	12.690	-27.439	28.743	1.00	12.38	A	N
ATOM	194	CA	SER	A	37	11.883	-26.576	29.585	1.00	3.43	A	C
ATOM	195	CB	SER	A	37	12.158	-26.874	31.058	1.00	12.82	A	C
ATOM	196	OG	SER	A	37	11.576	-28.109	31.449	1.00	17.23	A	O
ATOM	197	C	SER	A	37	12.261	-25.136	29.247	1.00	14.86	A	C
ATOM	198	O	SER	A	37	13.436	-24.809	29.039	1.00	11.90	A	O
ATOM	199	N	LYS	A	38	11.246	-24.296	29.155	1.00	9.78	A	N
ATOM	200	CA	LYS	A	38	11.429	-22.895	28.832	1.00	16.20	A	C
ATOM	201	CB	LYS	A	38	10.580	-22.552	27.604	1.00	23.16	A	C
ATOM	202	CG	LYS	A	38	10.808	-21.171	27.021	1.00	45.75	A	C
ATOM	203	CD	LYS	A	38	10.039	-21.015	25.713	1.00	52.01	A	C
ATOM	204	CE	LYS	A	38	10.257	-19.647	25.083	1.00	58.21	A	C
ATOM	205	NZ	LYS	A	38	9.581	-19.542	23.754	1.00	51.82	A	N
ATOM	206	C	LYS	A	38	10.984	-22.103	30.047	1.00	12.89	A	C
ATOM	207	O	LYS	A	38	9.927	-22.376	30.619	1.00	11.45	A	O
ATOM	208	N	TYR	A	39	11.805	-21.139	30.457	1.00	12.97	A	N
ATOM	209	CA	TYR	A	39	11.493	-20.322	31.629	1.00	13.77	A	C
ATOM	210	CB	TYR	A	39	12.516	-20.583	32.760	1.00	7.60	A	C
ATOM	211	CG	TYR	A	39	12.553	-22.019	33.220	1.00	6.59	A	C
ATOM	212	CD1	TYR	A	39	11.686	-22.476	34.213	1.00	8.29	A	C
ATOM	213	CE1	TYR	A	39	11.715	-23.805	34.642	1.00	12.55	A	C
ATOM	214	CD2	TYR	A	39	13.455	-22.925	32.661	1.00	7.98	A	C
ATOM	215	CE2	TYR	A	39	13.502	-24.264	33.089	1.00	11.03	A	C
ATOM	216	CZ	TYR	A	39	12.627	-24.692	34.078	1.00	14.34	A	C
ATOM	217	OH	TYR	A	39	12.665	-25.993	34.516	1.00	16.58	A	O
ATOM	218	C	TYR	A	39	11.451	-18.828	31.360	1.00	16.32	A	C
ATOM	219	O	TYR	A	39	12.262	-18.282	30.603	1.00	9.54	A	O
ATOM	220	N	ASP	A	40	10.508	-18.178	32.037	1.00	12.85	A	N
ATOM	221	CA	ASP	A	40	10.298	-16.749	31.958	1.00	4.31	A	C
ATOM	222	CB	ASP	A	40	8.772	-16.547	31.886	1.00	10.49	A	C
ATOM	223	CG	ASP	A	40	8.306	-15.143	32.223	1.00	22.03	A	C
ATOM	224	OD1	ASP	A	40	9.140	-14.218	32.392	1.00	19.82	A	O
ATOM	225	OD2	ASP	A	40	7.055	-14.986	32.314	1.00	9.68	A	O
ATOM	226	C	ASP	A	40	10.963	-16.193	33.241	1.00	10.55	A	C
ATOM	227	O	ASP	A	40	10.491	-16.442	34.354	1.00	9.74	A	O
ATOM	228	N	LEU	A	41	12.083	-15.487	33.076	1.00	8.69	A	N
ATOM	229	CA	LEU	A	41	12.828	-14.901	34.200	1.00	10.49	A	C
ATOM	230	CB	LEU	A	41	14.340	-15.112	34.005	1.00	6.17	A	C
ATOM	231	CG	LEU	A	41	14.784	-16.561	33.680	1.00	10.75	A	C
ATOM	232	CD1	LEU	A	41	16.287	-16.622	33.512	1.00	10.49	A	C
ATOM	233	CD2	LEU	A	41	14.381	-17.498	34.768	1.00	5.44	A	C
ATOM	234	C	LEU	A	41	12.496	-13.403	34.218	1.00	15.81	A	C
ATOM	235	O	LEU	A	41	13.205	-12.577	33.652	1.00	13.34	A	O
ATOM	236	N	ARG	A	42	11.415	-13.074	34.907	1.00	13.09	A	N
ATOM	237	CA	ARG	A	42	10.915	-11.734	34.953	1.00	11.95	A	C
ATOM	238	CB	ARG	A	42	9.408	-11.822	35.119	1.00	7.43	A	C
ATOM	239	CG	ARG	A	42	8.694	-10.546	34.854	1.00	4.23	A	C
ATOM	240	CD	ARG	A	42	8.607	-10.258	33.349	1.00	7.94	A	C
ATOM	241	NE	ARG	A	42	7.962	-11.351	32.615	1.00	16.42	A	N
ATOM	242	CZ	ARG	A	42	7.346	-11.232	31.439	1.00	19.11	A	C
ATOM	243	NH1	ARG	A	42	7.255	-10.050	30.820	1.00	12.23	A	N
ATOM	244	NH2	ARG	A	42	6.854	-12.322	30.848	1.00	17.34	A	N
ATOM	245	C	ARG	A	42	11.495	-10.774	35.989	1.00	11.96	A	C
ATOM	246	O	ARG	A	42	11.308	-10.962	37.191	1.00	13.43	A	O
ATOM	247	N	PHE	A	43	12.191	-9.744	35.507	1.00	11.36	A	N
ATOM	248	CA	PHE	A	43	12.768	-8.691	36.358	1.00	11.31	A	C

ATOM	249	CB	PHE	A	43	13.897	-7.951	35.638	1.00	10.15	A	C
ATOM	250	CG	PHE	A	43	15.177	-8.732	35.544	1.00	12.27	A	C
ATOM	251	CD1	PHE	A	43	16.365	-8.182	35.990	1.00	13.18	A	C
ATOM	252	CD2	PHE	A	43	15.194	-10.000	34.966	1.00	12.38	A	C
ATOM	253	CE1	PHE	A	43	17.590	-8.877	35.863	1.00	15.17	A	C
ATOM	254	CE2	PHE	A	43	16.401	-10.707	34.826	1.00	21.81	A	C
ATOM	255	CZ	PHE	A	43	17.608	-10.137	35.279	1.00	20.48	A	C
ATOM	256	C	PHE	A	43	11.703	-7.653	36.704	1.00	12.86	A	C
ATOM	257	O	PHE	A	43	11.500	-7.338	37.870	1.00	13.23	A	O
ATOM	258	N	LEU	A	44	11.023	-7.131	35.677	1.00	8.98	A	N
ATOM	259	CA	LEU	A	44	10.007	-6.081	35.862	1.00	12.02	A	C
ATOM	260	CB	LEU	A	44	10.278	-4.929	34.884	1.00	11.96	A	C
ATOM	261	CG	LEU	A	44	11.712	-4.382	34.840	1.00	16.76	A	C
ATOM	262	CD1	LEU	A	44	11.655	-2.993	34.176	1.00	15.04	A	C
ATOM	263	CD2	LEU	A	44	12.301	-4.255	36.259	1.00	19.20	A	C
ATOM	264	C	LEU	A	44	8.555	-6.514	35.692	1.00	11.08	A	C
ATOM	265	O	LEU	A	44	8.250	-7.485	35.004	1.00	8.31	A	O
ATOM	266	N	GLN	A	45	7.655	-5.769	36.318	1.00	8.77	A	N
ATOM	267	CA	GLN	A	45	6.240	-6.059	36.214	1.00	13.21	A	C
ATOM	268	CB	GLN	A	45	5.449	-5.187	37.186	1.00	17.32	A	C
ATOM	269	CG	GLN	A	45	3.949	-5.482	37.199	1.00	20.66	A	C
ATOM	270	CD	GLN	A	45	3.645	-6.858	37.753	1.00	20.56	A	C
ATOM	271	OE1	GLN	A	45	4.404	-7.391	38.555	1.00	18.64	A	O
ATOM	272	NE2	GLN	A	45	2.527	-7.429	37.342	1.00	14.36	A	N
ATOM	273	C	GLN	A	45	5.836	-5.709	34.791	1.00	11.37	A	C
ATOM	274	O	GLN	A	45	6.127	-4.623	34.318	1.00	9.72	A	O
ATOM	275	N	PRO	A	46	5.191	-6.644	34.083	1.00	15.40	A	N
ATOM	276	CD	PRO	A	46	4.937	-8.063	34.424	1.00	7.73	A	C
ATOM	277	CA	PRO	A	46	4.778	-6.349	32.712	1.00	8.36	A	C
ATOM	278	CB	PRO	A	46	3.865	-7.521	32.379	1.00	16.74	A	C
ATOM	279	CG	PRO	A	46	4.589	-8.680	33.064	1.00	14.01	A	C
ATOM	280	C	PRO	A	46	4.087	-4.995	32.537	1.00	15.25	A	C
ATOM	281	O	PRO	A	46	3.192	-4.608	33.307	1.00	7.25	A	O
ATOM	282	N	ASN	A	47	4.528	-4.259	31.525	1.00	9.32	A	N
ATOM	283	CA	ASN	A	47	3.925	-2.951	31.204	1.00	18.50	A	C
ATOM	284	CB	ASN	A	47	2.457	-3.175	30.808	1.00	8.91	A	C
ATOM	285	CG	ASN	A	47	2.344	-4.055	29.592	1.00	16.60	A	C
ATOM	286	OD1	ASN	A	47	2.800	-3.678	28.510	1.00	15.12	A	O
ATOM	287	ND2	ASN	A	47	1.774	-5.250	29.763	1.00	8.14	A	N
ATOM	288	C	ASN	A	47	4.013	-1.822	32.215	1.00	9.37	A	C
ATOM	289	O	ASN	A	47	3.218	-0.880	32.166	1.00	17.40	A	O
ATOM	290	N	GLN	A	48	4.968	-1.907	33.135	1.00	17.82	A	N
ATOM	291	CA	GLN	A	48	5.153	-0.860	34.145	1.00	19.74	A	C
ATOM	292	CB	GLN	A	48	5.034	-1.437	35.559	1.00	18.39	A	C
ATOM	293	CG	GLN	A	48	3.626	-1.884	35.910	1.00	26.26	A	C
ATOM	294	CD	GLN	A	48	2.665	-0.716	35.977	1.00	40.59	A	C
ATOM	295	OE1	GLN	A	48	2.967	0.324	36.581	1.00	37.91	A	O
ATOM	296	NE2	GLN	A	48	1.493	-0.877	35.365	1.00	44.01	A	N
ATOM	297	C	GLN	A	48	6.539	-0.280	33.966	1.00	22.00	A	C
ATOM	298	O	GLN	A	48	7.046	0.435	34.823	1.00	20.15	A	O
ATOM	299	N	GLY	A	49	7.153	-0.596	32.837	1.00	18.34	A	N
ATOM	300	CA	GLY	A	49	8.491	-0.106	32.588	1.00	26.03	A	C
ATOM	301	C	GLY	A	49	9.296	-1.183	31.901	1.00	20.67	A	C
ATOM	302	O	GLY	A	49	8.874	-2.339	31.856	1.00	19.26	A	O
ATOM	303	N	ALA	A	50	10.452	-0.807	31.368	1.00	20.02	A	N
ATOM	304	CA	ALA	A	50	11.305	-1.751	30.663	1.00	16.49	A	C
ATOM	305	CB	ALA	A	50	11.083	-1.627	29.147	1.00	21.35	A	C

Table 10

ATOM	306	C	ALA	A	50	12.751	-1.468	30.992	1.00	21.74	A	C
ATOM	307	O	ALA	A	50	13.098	-0.374	31.425	1.00	19.01	A	O
ATOM	308	N	ILE	A	51	13.591	-2.470	30.785	1.00	20.50	A	N
ATOM	309	CA	ILE	A	51	15.015	-2.334	31.037	1.00	16.67	A	C
ATOM	310	CB	ILE	A	51	15.659	-3.721	31.260	1.00	14.26	A	C
ATOM	311	CG2	ILE	A	51	17.184	-3.597	31.322	1.00	8.11	A	C
ATOM	312	CG1	ILE	A	51	15.070	-4.365	32.519	1.00	16.55	A	C
ATOM	313	CD1	ILE	A	51	15.475	-5.820	32.697	1.00	15.89	A	C
ATOM	314	C	ILE	A	51	15.584	-1.679	29.787	1.00	16.92	A	C
ATOM	315	O	ILE	A	51	15.141	-1.958	28.667	1.00	8.92	A	O
ATOM	316	N	ASP	A	52	16.571	-0.815	29.991	1.00	13.59	A	N
ATOM	317	CA	ASP	A	52	17.213	-0.067	28.913	1.00	19.08	A	C
ATOM	318	CB	ASP	A	52	18.206	0.930	29.537	1.00	23.07	A	C
ATOM	319	CG	ASP	A	52	18.831	1.844	28.524	1.00	44.64	A	C
ATOM	320	OD1	ASP	A	52	18.097	2.691	27.970	1.00	61.64	A	O
ATOM	321	OD2	ASP	A	52	20.056	1.724	28.281	1.00	51.83	A	O
ATOM	322	C	ASP	A	52	17.941	-1.052	28.000	1.00	17.10	A	C
ATOM	323	O	ASP	A	52	18.495	-2.023	28.475	1.00	15.41	A	O
ATOM	324	N	PRO	A	53	17.947	-0.807	26.678	1.00	11.53	A	N
ATOM	325	CD	PRO	A	53	17.227	0.242	25.937	1.00	13.16	A	C
ATOM	326	CA	PRO	A	53	18.622	-1.709	25.757	1.00	7.71	A	C
ATOM	327	CB	PRO	A	53	18.477	-0.994	24.423	1.00	16.40	A	C
ATOM	328	CG	PRO	A	53	17.142	-0.358	24.556	1.00	13.28	A	C
ATOM	329	C	PRO	A	53	20.080	-2.031	26.116	1.00	18.73	A	C
ATOM	330	O	PRO	A	53	20.500	-3.178	25.989	1.00	8.54	A	O
ATOM	331	N	ALA	A	54	20.846	-1.036	26.571	1.00	13.38	A	N
ATOM	332	CA	ALA	A	54	22.240	-1.271	26.948	1.00	11.63	A	C
ATOM	333	CB	ALA	A	54	22.933	0.034	27.302	1.00	7.86	A	C
ATOM	334	C	ALA	A	54	22.319	-2.204	28.141	1.00	13.82	A	C
ATOM	335	O	ALA	A	54	23.106	-3.159	28.149	1.00	9.68	A	O
ATOM	336	N	ALA	A	55	21.518	-1.908	29.158	1.00	8.47	A	N
ATOM	337	CA	ALA	A	55	21.520	-2.708	30.358	1.00	10.76	A	C
ATOM	338	CB	ALA	A	55	20.615	-2.085	31.419	1.00	8.24	A	C
ATOM	339	C	ALA	A	55	21.096	-4.145	30.095	1.00	13.33	A	C
ATOM	340	O	ALA	A	55	21.674	-5.064	30.662	1.00	13.15	A	O
ATOM	341	N	ILE	A	56	20.103	-4.364	29.236	1.00	12.73	A	N
ATOM	342	CA	ILE	A	56	19.679	-5.739	29.020	1.00	13.99	A	C
ATOM	343	CB	ILE	A	56	18.257	-5.796	28.401	1.00	14.78	A	C
ATOM	344	CG2	ILE	A	56	18.327	-5.845	26.891	1.00	15.67	A	C
ATOM	345	CG1	ILE	A	56	17.513	-7.007	28.980	1.00	12.95	A	C
ATOM	346	CD1	ILE	A	56	16.022	-7.114	28.573	1.00	12.85	A	C
ATOM	347	C	ILE	A	56	20.731	-6.509	28.207	1.00	11.91	A	C
ATOM	348	O	ILE	A	56	20.943	-7.701	28.420	1.00	8.09	A	O
ATOM	349	N	HIS	A	57	21.427	-5.799	27.321	1.00	10.29	A	N
ATOM	350	CA	HIS	A	57	22.505	-6.380	26.522	1.00	10.33	A	C
ATOM	351	CB	HIS	A	57	23.039	-5.308	25.566	1.00	10.84	A	C
ATOM	352	CG	HIS	A	57	24.104	-5.786	24.634	1.00	6.39	A	C
ATOM	353	CD2	HIS	A	57	24.506	-7.035	24.297	1.00	8.00	A	C
ATOM	354	ND1	HIS	A	57	24.893	-4.921	23.909	1.00	12.21	A	N
ATOM	355	CE1	HIS	A	57	25.736	-5.613	23.164	1.00	13.59	A	C
ATOM	356	NE2	HIS	A	57	25.520	-6.899	23.379	1.00	14.88	A	N
ATOM	357	C	HIS	A	57	23.628	-6.850	27.486	1.00	11.42	A	C
ATOM	358	O	HIS	A	57	24.163	-7.946	27.342	1.00	9.54	A	O
ATOM	359	N	THR	A	58	23.988	-6.016	28.460	1.00	12.34	A	N
ATOM	360	CA	THR	A	58	25.035	-6.371	29.439	1.00	5.99	A	C
ATOM	361	CB	THR	A	58	25.404	-5.138	30.327	1.00	16.06	A	C
ATOM	362	OG1	THR	A	58	25.980	-4.132	29.493	1.00	12.94	A	O

ATOM	363	CG2	THR	A	58	26.430	-5.506	31.442	1.00	5.76	A	C
ATOM	364	C	THR	A	58	24.552	-7.535	30.313	1.00	7.48	A	C
ATOM	365	O	THR	A	58	25.326	-8.441	30.616	1.00	15.31	A	O
ATOM	366	N	LEU	A	59	23.281	-7.510	30.716	1.00	6.44	A	N
ATOM	367	CA	LEU	A	59	22.708	-8.589	31.519	1.00	11.81	A	C
ATOM	368	CB	LEU	A	59	21.252	-8.298	31.859	1.00	6.98	A	C
ATOM	369	CG	LEU	A	59	21.047	-7.317	33.014	1.00	10.91	A	C
ATOM	370	CD1	LEU	A	59	19.587	-6.893	33.091	1.00	7.50	A	C
ATOM	371	CD2	LEU	A	59	21.485	-7.980	34.312	1.00	13.34	A	C
ATOM	372	C	LEU	A	59	22.817	-9.908	30.760	1.00	11.45	A	C
ATOM	373	O	LEU	A	59	23.090	-10.950	31.354	1.00	13.82	A	O
ATOM	374	N	GLU	A	60	22.635	-9.844	29.441	1.00	19.23	A	N
ATOM	375	CA	GLU	A	60	22.745	-11.018	28.571	1.00	20.44	A	C
ATOM	376	CB	GLU	A	60	22.352	-10.655	27.129	1.00	27.79	A	C
ATOM	377	CG	GLU	A	60	22.638	-11.763	26.092	1.00	26.82	A	C
ATOM	378	CD	GLU	A	60	22.593	-11.249	24.648	1.00	36.84	A	C
ATOM	379	OE1	GLU	A	60	23.421	-10.371	24.301	1.00	34.79	A	O
ATOM	380	OE2	GLU	A	60	21.732	-11.721	23.864	1.00	22.72	A	O
ATOM	381	C	GLU	A	60	24.178	-11.539	28.589	1.00	16.10	A	C
ATOM	382	O	GLU	A	60	24.394	-12.746	28.707	1.00	11.30	A	O
ATOM	383	N	HIS	A	61	25.156	-10.637	28.465	1.00	8.03	A	N
ATOM	384	CA	HIS	A	61	26.564	-11.046	28.495	1.00	14.90	A	C
ATOM	385	CB	HIS	A	61	27.498	-9.845	28.251	1.00	13.04	A	C
ATOM	386	CG	HIS	A	61	27.773	-9.565	26.805	1.00	15.84	A	C
ATOM	387	CD2	HIS	A	61	26.943	-9.471	25.739	1.00	16.02	A	C
ATOM	388	ND1	HIS	A	61	29.040	-9.298	26.326	1.00	15.60	A	N
ATOM	389	CE1	HIS	A	61	28.975	-9.049	25.030	1.00	12.18	A	C
ATOM	390	NE2	HIS	A	61	27.714	-9.147	24.651	1.00	16.10	A	N
ATOM	391	C	HIS	A	61	26.965	-11.695	29.828	1.00	11.65	A	C
ATOM	392	O	HIS	A	61	27.741	-12.656	29.837	1.00	17.47	A	O
ATOM	393	N	LEU	A	62	26.450	-11.162	30.944	1.00	7.52	A	N
ATOM	394	CA	LEU	A	62	26.781	-11.680	32.282	1.00	13.39	A	C
ATOM	395	CB	LEU	A	62	26.538	-10.605	33.360	1.00	7.82	A	C
ATOM	396	CG	LEU	A	62	27.352	-9.296	33.312	1.00	15.54	A	C
ATOM	397	CD1	LEU	A	62	26.770	-8.284	34.316	1.00	10.26	A	C
ATOM	398	CD2	LEU	A	62	28.829	-9.558	33.630	1.00	10.86	A	C
ATOM	399	C	LEU	A	62	26.037	-12.963	32.679	1.00	19.83	A	C
ATOM	400	O	LEU	A	62	26.646	-13.898	33.209	1.00	13.34	A	O
ATOM	401	N	LEU	A	63	24.730	-13.005	32.426	1.00	13.45	A	N
ATOM	402	CA	LEU	A	63	23.936	-14.167	32.775	1.00	17.23	A	C
ATOM	403	CB	LEU	A	63	22.446	-13.830	32.703	1.00	15.53	A	C
ATOM	404	CG	LEU	A	63	22.001	-12.834	33.774	1.00	20.21	A	C
ATOM	405	CD1	LEU	A	63	20.510	-12.642	33.699	1.00	21.35	A	C
ATOM	406	CD2	LEU	A	63	22.383	-13.339	35.155	1.00	20.57	A	C
ATOM	407	C	LEU	A	63	24.266	-15.394	31.921	1.00	20.16	A	C
ATOM	408	O	LEU	A	63	24.159	-16.526	32.400	1.00	15.52	A	O
ATOM	409	N	ALA	A	64	24.684	-15.177	30.674	1.00	14.99	A	N
ATOM	410	CA	ALA	A	64	25.060	-16.292	29.800	1.00	14.34	A	C
ATOM	411	CB	ALA	A	64	25.727	-15.776	28.536	1.00	16.67	A	C
ATOM	412	C	ALA	A	64	26.043	-17.170	30.574	1.00	22.65	A	C
ATOM	413	O	ALA	A	64	25.892	-18.389	30.630	1.00	21.10	A	O
ATOM	414	N	GLY	A	65	27.043	-16.528	31.178	1.00	17.59	A	N
ATOM	415	CA	GLY	A	65	28.033	-17.248	31.953	1.00	17.23	A	C
ATOM	416	C	GLY	A	65	27.622	-17.623	33.376	1.00	18.88	A	C
ATOM	417	O	GLY	A	65	27.845	-18.763	33.795	1.00	19.52	A	O
ATOM	418	N	TYR	A	66	27.035	-16.692	34.129	1.00	8.69	A	N
ATOM	419	CA	TYR	A	66	26.638	-16.996	35.511	1.00	16.91	A	C

ATOM	420	CB	TYR	A	66	26.286	-15.701	36.271	1.00	15.68	A	C
ATOM	421	CG	TYR	A	66	27.493	-14.796	36.557	1.00	16.26	A	C
ATOM	422	CD1	TYR	A	66	27.409	-13.426	36.392	1.00	14.04	A	C
ATOM	423	CE1	TYR	A	66	28.495	-12.581	36.668	1.00	11.66	A	C
ATOM	424	CD2	TYR	A	66	28.704	-15.321	37.013	1.00	22.14	A	C
ATOM	425	CE2	TYR	A	66	29.807	-14.484	37.300	1.00	26.11	A	C
ATOM	426	CZ	TYR	A	66	29.689	-13.113	37.123	1.00	25.24	A	C
ATOM	427	OH	TYR	A	66	30.751	-12.263	37.413	1.00	21.69	A	O
ATOM	428	C	TYR	A	66	25.511	-18.018	35.656	1.00	13.24	A	C
ATOM	429	O	TYR	A	66	25.425	-18.696	36.676	1.00	12.38	A	O
ATOM	430	N	MSE	A	67	24.633	-18.133	34.663	1.00	13.04	A	N
ATOM	431	CA	MSE	A	67	23.557	-19.123	34.747	1.00	16.41	A	C
ATOM	432	CB	MSE	A	67	22.463	-18.896	33.682	1.00	13.37	A	C
ATOM	433	CG	MSE	A	67	21.480	-17.790	34.013	1.00	29.25	A	C
ATOM	434	SE	MSE	A	67	20.506	-18.027	35.704	1.00	39.62	A	S
ATOM	435	CE	MSE	A	67	20.002	-19.862	35.608	1.00	12.66	A	C
ATOM	436	C	MSE	A	67	24.174	-20.504	34.555	1.00	10.79	A	C
ATOM	437	O	MSE	A	67	23.791	-21.455	35.230	1.00	15.98	A	O
ATOM	438	N	ARG	A	68	25.131	-20.609	33.639	1.00	12.89	A	N
ATOM	439	CA	ARG	A	68	25.784	-21.883	33.412	1.00	12.77	A	C
ATOM	440	CB	ARG	A	68	26.617	-21.851	32.134	1.00	10.69	A	C
ATOM	441	CG	ARG	A	68	25.759	-21.812	30.856	1.00	11.47	A	C
ATOM	442	CD	ARG	A	68	26.628	-21.628	29.638	1.00	12.64	A	C
ATOM	443	NE	ARG	A	68	25.908	-21.892	28.389	1.00	20.85	A	N
ATOM	444	CZ	ARG	A	68	25.156	-21.012	27.739	1.00	22.61	A	C
ATOM	445	NH1	ARG	A	68	25.007	-19.771	28.209	1.00	17.12	A	N
ATOM	446	NH2	ARG	A	68	24.547	-21.375	26.608	1.00	17.04	A	N
ATOM	447	C	ARG	A	68	26.640	-22.319	34.601	1.00	20.95	A	C
ATOM	448	O	ARG	A	68	26.897	-23.510	34.761	1.00	18.74	A	O
ATOM	449	N	ASP	A	69	27.079	-21.376	35.439	1.00	25.73	A	N
ATOM	450	CA	ASP	A	69	27.869	-21.745	36.625	1.00	21.37	A	C
ATOM	451	CB	ASP	A	69	28.511	-20.525	37.301	1.00	17.60	A	C
ATOM	452	CG	ASP	A	69	29.611	-19.891	36.471	1.00	16.81	A	C
ATOM	453	OD1	ASP	A	69	30.285	-20.602	35.699	1.00	20.42	A	O
ATOM	454	OD2	ASP	A	69	29.817	-18.670	36.619	1.00	24.32	A	O
ATOM	455	C	ASP	A	69	26.953	-22.393	37.654	1.00	21.13	A	C
ATOM	456	O	ASP	A	69	27.387	-23.175	38.503	1.00	21.11	A	O
ATOM	457	N	HIS	A	70	25.673	-22.058	37.576	1.00	14.98	A	N
ATOM	458	CA	HIS	A	70	24.713	-22.569	38.537	1.00	20.98	A	C
ATOM	459	CB	HIS	A	70	24.037	-21.377	39.220	1.00	17.13	A	C
ATOM	460	CG	HIS	A	70	25.001	-20.496	39.944	1.00	17.86	A	C
ATOM	461	CD2	HIS	A	70	25.375	-19.215	39.729	1.00	11.68	A	C
ATOM	462	ND1	HIS	A	70	25.770	-20.951	40.996	1.00	22.89	A	N
ATOM	463	CE1	HIS	A	70	26.580	-19.986	41.396	1.00	22.10	A	C
ATOM	464	NE2	HIS	A	70	26.361	-18.923	40.645	1.00	24.42	A	N
ATOM	465	C	HIS	A	70	23.653	-23.546	38.037	1.00	18.87	A	C
ATOM	466	O	HIS	A	70	22.933	-24.115	38.837	1.00	20.56	A	O
ATOM	467	N	LEU	A	71	23.564	-23.767	36.734	1.00	17.85	A	N
ATOM	468	CA	LEU	A	71	22.526	-24.665	36.229	1.00	19.94	A	C
ATOM	469	CB	LEU	A	71	21.298	-23.814	35.855	1.00	15.74	A	C
ATOM	470	CG	LEU	A	71	20.010	-24.422	35.311	1.00	21.40	A	C
ATOM	471	CD1	LEU	A	71	19.420	-25.446	36.295	1.00	13.47	A	C
ATOM	472	CD2	LEU	A	71	19.038	-23.277	35.059	1.00	24.80	A	C
ATOM	473	C	LEU	A	71	23.034	-25.459	35.024	1.00	19.52	A	C
ATOM	474	O	LEU	A	71	23.620	-24.882	34.104	1.00	18.38	A	O
ATOM	475	N	GLU	A	72	22.820	-26.776	35.038	1.00	13.50	A	N
ATOM	476	CA	GLU	A	72	23.258	-27.659	33.945	1.00	20.83	A	C

Table 10

ATOM	477	CB	GLU	A	72	23.486	-29.085	34.466	1.00	18.46	A C
ATOM	478	CG	GLU	A	72	24.435	-29.164	35.663	1.00	45.58	A C
ATOM	479	CD	GLU	A	72	24.302	-30.470	36.432	1.00	54.57	A C
ATOM	480	OE1	GLU	A	72	24.511	-31.542	35.818	1.00	60.03	A O
ATOM	481	OE2	GLU	A	72	23.985	-30.422	37.647	1.00	54.60	A O
ATOM	482	C	GLU	A	72	22.198	-27.728	32.854	1.00	16.44	A C
ATOM	483	O	GLU	A	72	21.027	-27.506	33.121	1.00	17.85	A O
ATOM	484	N	GLY	A	77	22.616	-28.052	31.636	1.00	15.59	A N
ATOM	485	CA	GLY	A	77	21.672	-28.175	30.538	1.00	18.11	A C
ATOM	486	C	GLY	A	77	21.085	-26.891	29.961	1.00	14.26	A C
ATOM	487	O	GLY	A	77	20.096	-26.953	29.271	1.00	14.46	A O
ATOM	488	N	VAL	A	78	21.679	-25.737	30.238	1.00	14.89	A N
ATOM	489	CA	VAL	A	78	21.174	-24.476	29.693	1.00	10.81	A C
ATOM	490	CB	VAL	A	78	21.913	-23.271	30.291	1.00	18.32	A C
ATOM	491	CG1	VAL	A	78	21.568	-21.989	29.509	1.00	12.21	A C
ATOM	492	CG2	VAL	A	78	21.556	-23.133	31.765	1.00	15.90	A C
ATOM	493	C	VAL	A	78	21.360	-24.409	28.177	1.00	19.17	A C
ATOM	494	O	VAL	A	78	22.454	-24.639	27.669	1.00	18.18	A O
ATOM	495	N	VAL	A	79	20.301	-24.094	27.443	1.00	12.84	A N
ATOM	496	CA	VAL	A	79	20.448	-23.960	26.003	1.00	10.75	A C
ATOM	497	CB	VAL	A	79	19.088	-24.159	25.273	1.00	16.92	A C
ATOM	498	CG1	VAL	A	79	19.260	-23.989	23.775	1.00	10.59	A C
ATOM	499	CG2	VAL	A	79	18.565	-25.557	25.546	1.00	21.96	A C
ATOM	500	C	VAL	A	79	21.026	-22.559	25.748	1.00	13.12	A C
ATOM	501	O	VAL	A	79	22.111	-22.423	25.175	1.00	13.40	A O
ATOM	502	N	ASP	A	80	20.323	-21.531	26.215	1.00	12.52	A N
ATOM	503	CA	ASP	A	80	20.747	-20.139	26.059	1.00	14.66	A C
ATOM	504	CB	ASP	A	80	20.617	-19.724	24.595	1.00	27.44	A C
ATOM	505	CG	ASP	A	80	19.410	-20.360	23.924	1.00	51.49	A C
ATOM	506	OD1	ASP	A	80	18.324	-20.381	24.552	1.00	54.21	A O
ATOM	507	OD2	ASP	A	80	19.546	-20.841	22.771	1.00	59.70	A O
ATOM	508	C	ASP	A	80	19.865	-19.229	26.892	1.00	12.69	A C
ATOM	509	O	ASP	A	80	18.743	-19.599	27.217	1.00	14.20	A O
ATOM	510	N	VAL	A	81	20.379	-18.051	27.243	1.00	14.85	A N
ATOM	511	CA	VAL	A	81	19.625	-17.060	28.014	1.00	13.46	A C
ATOM	512	CB	VAL	A	81	20.366	-16.618	29.307	1.00	21.47	A C
ATOM	513	CG1	VAL	A	81	19.439	-15.757	30.175	1.00	14.09	A C
ATOM	514	CG2	VAL	A	81	20.835	-17.843	30.084	1.00	29.51	A C
ATOM	515	C	VAL	A	81	19.535	-15.870	27.069	1.00	18.91	A C
ATOM	516	O	VAL	A	81	20.562	-15.359	26.604	1.00	14.59	A O
ATOM	517	N	SER	A	82	18.311	-15.447	26.767	1.00	12.73	A N
ATOM	518	CA	SER	A	82	18.098	-14.340	25.837	1.00	15.15	A C
ATOM	519	CB	SER	A	82	17.413	-14.817	24.542	1.00	18.58	A C
ATOM	520	OG	SER	A	82	18.135	-15.836	23.885	1.00	28.74	A O
ATOM	521	C	SER	A	82	17.203	-13.285	26.428	1.00	10.72	A C
ATOM	522	O	SER	A	82	16.338	-13.566	27.256	1.00	12.99	A O
ATOM	523	N	PRO	A	83	17.396	-12.037	26.005	1.00	14.44	A N
ATOM	524	CD	PRO	A	83	18.484	-11.463	25.200	1.00	11.91	A C
ATOM	525	CA	PRO	A	83	16.529	-10.993	26.548	1.00	10.66	A C
ATOM	526	CB	PRO	A	83	17.251	-9.707	26.147	1.00	21.15	A C
ATOM	527	CG	PRO	A	83	17.935	-10.079	24.887	1.00	21.76	A C
ATOM	528	C	PRO	A	83	15.184	-11.132	25.835	1.00	12.23	A C
ATOM	529	O	PRO	A	83	15.144	-11.598	24.718	1.00	6.48	A O
ATOM	530	N	MSE	A	84	14.091	-10.739	26.475	1.00	9.29	A N
ATOM	531	CA	MSE	A	84	12.797	-10.823	25.813	1.00	9.68	A C
ATOM	532	CB	MSE	A	84	11.676	-10.892	26.840	1.00	6.59	A C
ATOM	533	CG	MSE	A	84	11.928	-11.908	27.927	1.00	23.13	A C

ATOM	534	SE	MSE	A	84	10.302	-12.115	28.938	1.00	39.28	A S
ATOM	535	CE	MSE	A	84	10.341	-10.529	29.956	1.00	28.36	A C
ATOM	536	C	MSE	A	84	12.665	-9.520	25.043	1.00	15.00	A C
ATOM	537	O	MSE	A	84	13.260	-8.513	25.426	1.00	8.44	A O
ATOM	538	N	GLY	A	85	11.885	-9.539	23.967	1.00	11.50	A N
ATOM	539	CA	GLY	A	85	11.685	-8.335	23.185	1.00	9.62	A C
ATOM	540	C	GLY	A	85	10.968	-7.269	23.996	1.00	10.54	A C
ATOM	541	O	GLY	A	85	11.152	-6.080	23.754	1.00	8.18	A O
ATOM	542	N	CYS	A	86	10.168	-7.683	24.975	1.00	7.43	A N
ATOM	543	CA	CYS	A	86	9.454	-6.708	25.791	1.00	12.15	A C
ATOM	544	CB	CYS	A	86	8.237	-7.360	26.473	1.00	16.81	A C
ATOM	545	SG	CYS	A	86	8.581	-8.818	27.548	1.00	20.12	A S
ATOM	546	C	CYS	A	86	10.365	-6.039	26.828	1.00	8.71	A C
ATOM	547	O	CYS	A	86	9.970	-5.072	27.478	1.00	10.49	A O
ATOM	548	N	ARG	A	87	11.589	-6.554	26.976	1.00	6.05	A N
ATOM	549	CA	ARG	A	87	12.571	-5.993	27.919	1.00	3.84	A C
ATOM	550	CB	ARG	A	87	13.035	-4.612	27.408	1.00	7.67	A C
ATOM	551	CG	ARG	A	87	13.895	-4.736	26.132	1.00	19.21	A C
ATOM	552	CD	ARG	A	87	14.393	-3.417	25.575	1.00	12.79	A C
ATOM	553	NE	ARG	A	87	13.290	-2.594	25.083	1.00	12.97	A N
ATOM	554	CZ	ARG	A	87	13.012	-1.382	25.538	1.00	17.18	A C
ATOM	555	NH1	ARG	A	87	13.753	-0.851	26.508	1.00	18.42	A N
ATOM	556	NH2	ARG	A	87	12.028	-0.684	24.990	1.00	18.14	A N
ATOM	557	C	ARG	A	87	12.195	-5.909	29.407	1.00	11.18	A C
ATOM	558	O	ARG	A	87	12.685	-5.045	30.133	1.00	11.31	A O
ATOM	559	N	THR	A	88	11.327	-6.797	29.875	1.00	8.99	A N
ATOM	560	CA	THR	A	88	11.004	-6.798	31.289	1.00	6.73	A C
ATOM	561	CB	THR	A	88	9.478	-6.892	31.573	1.00	10.97	A C
ATOM	562	OG1	THR	A	88	8.924	-7.993	30.855	1.00	21.03	A O
ATOM	563	CG2	THR	A	88	8.764	-5.583	31.195	1.00	8.15	A C
ATOM	564	C	THR	A	88	11.675	-8.017	31.911	1.00	12.84	A C
ATOM	565	O	THR	A	88	11.566	-8.262	33.121	1.00	7.39	A O
ATOM	566	N	GLY	A	89	12.343	-8.806	31.084	1.00	12.62	A N
ATOM	567	CA	GLY	A	89	12.983	-9.989	31.631	1.00	17.58	A C
ATOM	568	C	GLY	A	89	13.807	-10.761	30.631	1.00	16.45	A C
ATOM	569	O	GLY	A	89	14.030	-10.283	29.529	1.00	12.19	A O
ATOM	570	N	MSE	A	90	14.252	-11.955	31.036	1.00	17.29	A N
ATOM	571	CA	MSE	A	90	15.086	-12.818	30.210	1.00	13.45	A C
ATOM	572	CB	MSE	A	90	16.386	-13.199	30.943	1.00	13.70	A C
ATOM	573	CG	MSE	A	90	17.235	-12.043	31.474	1.00	23.39	A C
ATOM	574	SE	MSE	A	90	17.969	-10.903	30.083	1.00	41.29	A S
ATOM	575	CE	MSE	A	90	19.362	-12.053	29.456	1.00	18.74	A C
ATOM	576	C	MSE	A	90	14.327	-14.102	29.931	1.00	15.57	A C
ATOM	577	O	MSE	A	90	13.450	-14.497	30.706	1.00	9.87	A O
ATOM	578	N	TYR	A	91	14.671	-14.742	28.822	1.00	12.83	A N
ATOM	579	CA	TYR	A	91	14.059	-16.011	28.453	1.00	12.91	A C
ATOM	580	CB	TYR	A	91	13.428	-15.938	27.059	1.00	20.14	A C
ATOM	581	CG	TYR	A	91	11.949	-16.259	27.045	1.00	45.83	A C
ATOM	582	CD1	TYR	A	91	11.313	-16.763	28.183	1.00	51.45	A C
ATOM	583	CE1	TYR	A	91	9.947	-17.045	28.186	1.00	54.15	A C
ATOM	584	CD2	TYR	A	91	11.177	-16.045	25.900	1.00	53.54	A C
ATOM	585	CE2	TYR	A	91	9.808	-16.323	25.891	1.00	62.26	A C
ATOM	586	CZ	TYR	A	91	9.200	-16.825	27.039	1.00	64.26	A C
ATOM	587	OH	TYR	A	91	7.853	-17.115	27.038	1.00	69.03	A O
ATOM	588	C	TYR	A	91	15.186	-17.058	28.447	1.00	6.81	A C
ATOM	589	O	TYR	A	91	16.285	-16.775	27.990	1.00	12.39	A O
ATOM	590	N	MSE	A	92	14.910	-18.258	28.942	1.00	3.53	A N

ATOM	591	CA	MSE	A	92	15.921	-19.299	28.955	1.00	14.29	A	C
ATOM	592	CB	MSE	A	92	16.672	-19.276	30.294	1.00	12.06	A	C
ATOM	593	CG	MSE	A	92	17.693	-20.391	30.449	1.00	19.27	A	C
ATOM	594	SE	MSE	A	92	18.521	-20.350	32.222	1.00	23.32	A	S
ATOM	595	CE	MSE	A	92	16.948	-20.729	33.279	1.00	24.00	A	C
ATOM	596	C	MSE	A	92	15.350	-20.685	28.723	1.00	16.08	A	C
ATOM	597	O	MSE	A	92	14.347	-21.056	29.334	1.00	13.08	A	O
ATOM	598	N	ALA	A	93	15.991	-21.447	27.832	1.00	7.41	A	N
ATOM	599	CA	ALA	A	93	15.565	-22.810	27.556	1.00	11.08	A	C
ATOM	600	CB	ALA	A	93	15.553	-23.068	26.034	1.00	10.68	A	C
ATOM	601	C	ALA	A	93	16.609	-23.698	28.251	1.00	14.42	A	C
ATOM	602	O	ALA	A	93	17.801	-23.404	28.188	1.00	11.86	A	O
ATOM	603	N	VAL	A	94	16.151	-24.762	28.907	1.00	9.05	A	N
ATOM	604	CA	VAL	A	94	17.014	-25.700	29.634	1.00	10.87	A	C
ATOM	605	CB	VAL	A	94	16.793	-25.601	31.183	1.00	6.37	A	C
ATOM	606	CG1	VAL	A	94	17.719	-26.580	31.916	1.00	13.51	A	C
ATOM	607	CG2	VAL	A	94	17.008	-24.175	31.681	1.00	15.90	A	C
ATOM	608	C	VAL	A	94	16.625	-27.137	29.241	1.00	18.74	A	C
ATOM	609	O	VAL	A	94	15.440	-27.480	29.212	1.00	16.55	A	O
ATOM	610	N	ILE	A	95	17.609	-27.973	28.935	1.00	13.19	A	N
ATOM	611	CA	ILE	A	95	17.314	-29.368	28.613	1.00	21.89	A	C
ATOM	612	CB	ILE	A	95	18.490	-30.057	27.905	1.00	19.24	A	C
ATOM	613	CG2	ILE	A	95	18.061	-31.438	27.418	1.00	24.49	A	C
ATOM	614	CG1	ILE	A	95	18.945	-29.212	26.721	1.00	19.91	A	C
ATOM	615	CD1	ILE	A	95	20.254	-29.685	26.094	1.00	27.24	A	C
ATOM	616	C	ILE	A	95	17.087	-30.066	29.952	1.00	20.74	A	C
ATOM	617	O	ILE	A	95	17.996	-30.157	30.784	1.00	21.80	A	O
ATOM	618	N	GLY	A	96	15.874	-30.541	30.174	1.00	18.14	A	N
ATOM	619	CA	GLY	A	96	15.591	-31.222	31.422	1.00	17.73	A	C
ATOM	620	C	GLY	A	96	14.138	-31.024	31.783	1.00	25.03	A	C
ATOM	621	O	GLY	A	96	13.484	-30.123	31.261	1.00	18.92	A	O
ATOM	622	N	GLU	A	97	13.630	-31.882	32.661	1.00	15.90	A	N
ATOM	623	CA	GLU	A	97	12.248	-31.806	33.107	1.00	26.62	A	C
ATOM	624	CB	GLU	A	97	11.949	-32.983	34.045	1.00	32.54	A	C
ATOM	625	CG	GLU	A	97	12.461	-32.787	35.480	1.00	51.24	A	C
ATOM	626	CD	GLU	A	97	13.977	-32.631	35.573	1.00	63.94	A	C
ATOM	627	OE1	GLU	A	97	14.692	-33.656	35.481	1.00	75.53	A	O
ATOM	628	OE2	GLU	A	97	14.455	-31.481	35.735	1.00	65.05	A	O
ATOM	629	C	GLU	A	97	12.016	-30.475	33.846	1.00	17.00	A	C
ATOM	630	O	GLU	A	97	12.951	-29.866	34.357	1.00	16.79	A	O
ATOM	631	N	PRO	A	98	10.763	-30.011	33.906	1.00	18.13	A	N
ATOM	632	CD	PRO	A	98	9.550	-30.507	33.234	1.00	16.90	A	C
ATOM	633	CA	PRO	A	98	10.496	-28.754	34.598	1.00	18.91	A	C
ATOM	634	CB	PRO	A	98	8.981	-28.665	34.557	1.00	18.07	A	C
ATOM	635	CG	PRO	A	98	8.686	-29.270	33.195	1.00	26.02	A	C
ATOM	636	C	PRO	A	98	11.034	-28.779	36.022	1.00	25.87	A	C
ATOM	637	O	PRO	A	98	10.874	-29.774	36.731	1.00	18.44	A	O
ATOM	638	N	ASP	A	99	11.686	-27.693	36.438	1.00	19.61	A	N
ATOM	639	CA	ASP	A	99	12.223	-27.614	37.798	1.00	18.90	A	C
ATOM	640	CB	ASP	A	99	13.617	-28.277	37.858	1.00	19.01	A	C
ATOM	641	CG	ASP	A	99	14.226	-28.230	39.262	1.00	27.86	A	C
ATOM	642	OD1	ASP	A	99	13.473	-28.013	40.238	1.00	24.30	A	O
ATOM	643	OD2	ASP	A	99	15.455	-28.414	39.393	1.00	35.49	A	O
ATOM	644	C	ASP	A	99	12.300	-26.149	38.207	1.00	8.48	A	C
ATOM	645	O	ASP	A	99	13.376	-25.599	38.311	1.00	13.20	A	O
ATOM	646	N	GLU	A	100	11.152	-25.527	38.440	1.00	16.32	A	N
ATOM	647	CA	GLU	A	100	11.106	-24.100	38.783	1.00	24.25	A	C

Table 10

ATOM	648	CB	GLU	A	100	9.651	-23.642	38.868	1.00	24.06	A C
ATOM	649	CG	GLU	A	100	8.895	-23.866	37.561	1.00	30.75	A C
ATOM	650	CD	GLU	A	100	7.424	-23.507	37.665	1.00	41.21	A C
ATOM	651	OE1	GLU	A	100	6.685	-24.189	38.411	1.00	36.40	A O
ATOM	652	OE2	GLU	A	100	7.011	-22.533	37.003	1.00	34.29	A O
ATOM	653	C	GLU	A	100	11.855	-23.698	40.046	1.00	18.43	A C
ATOM	654	O	GLU	A	100	12.459	-22.625	40.106	1.00	11.85	A O
ATOM	655	N	GLN	A	101	11.809	-24.561	41.052	1.00	12.59	A N
ATOM	656	CA	GLN	A	101	12.491	-24.321	42.314	1.00	15.68	A C
ATOM	657	CB	GLN	A	101	12.126	-25.451	43.287	1.00	26.30	A C
ATOM	658	CG	GLN	A	101	12.597	-25.247	44.705	1.00	34.60	A C
ATOM	659	CD	GLN	A	101	12.091	-23.948	45.298	1.00	35.49	A C
ATOM	660	OE1	GLN	A	101	10.944	-23.561	45.088	1.00	31.93	A O
ATOM	661	NE2	GLN	A	101	12.945	-23.276	46.059	1.00	32.48	A N
ATOM	662	C	GLN	A	101	14.011	-24.272	42.058	1.00	10.48	A C
ATOM	663	O	GLN	A	101	14.697	-23.359	42.505	1.00	10.85	A O
ATOM	664	N	GLY	A	102	14.529	-25.259	41.336	1.00	11.47	A N
ATOM	665	CA	GLY	A	102	15.944	-25.291	41.007	1.00	13.13	A C
ATOM	666	C	GLY	A	102	16.370	-24.150	40.092	1.00	18.81	A C
ATOM	667	O	GLY	A	102	17.487	-23.644	40.207	1.00	18.32	A O
ATOM	668	N	VAL	A	103	15.505	-23.746	39.161	1.00	12.05	A N
ATOM	669	CA	VAL	A	103	15.858	-22.635	38.287	1.00	10.91	A C
ATOM	670	CB	VAL	A	103	14.838	-22.463	37.128	1.00	14.25	A C
ATOM	671	CG1	VAL	A	103	15.023	-21.095	36.467	1.00	10.78	A C
ATOM	672	CG2	VAL	A	103	15.029	-23.566	36.099	1.00	23.26	A C
ATOM	673	C	VAL	A	103	15.871	-21.356	39.128	1.00	11.41	A C
ATOM	674	O	VAL	A	103	16.715	-20.492	38.953	1.00	13.05	A O
ATOM	675	N	MSE	A	104	14.923	-21.233	40.048	1.00	13.11	A N
ATOM	676	CA	MSE	A	104	14.872	-20.048	40.890	1.00	15.00	A C
ATOM	677	CB	MSE	A	104	13.661	-20.076	41.814	1.00	7.03	A C
ATOM	678	CG	MSE	A	104	13.863	-19.231	43.077	1.00	37.29	A C
ATOM	679	SE	MSE	A	104	12.178	-18.687	43.836	1.00	40.16	A S
ATOM	680	CE	MSE	A	104	11.757	-17.529	42.360	1.00	57.17	A C
ATOM	681	C	MSE	A	104	16.113	-19.867	41.734	1.00	12.43	A C
ATOM	682	O	MSE	A	104	16.621	-18.761	41.859	1.00	13.72	A O
ATOM	683	N	LYS	A	105	16.586	-20.949	42.335	1.00	15.05	A N
ATOM	684	CA	LYS	A	105	17.774	-20.869	43.159	1.00	20.91	A C
ATOM	685	CB	LYS	A	105	17.991	-22.200	43.882	1.00	23.25	A C
ATOM	686	CG	LYS	A	105	16.894	-22.517	44.886	1.00	41.76	A C
ATOM	687	CD	LYS	A	105	16.780	-21.417	45.937	1.00	39.75	A C
ATOM	688	CE	LYS	A	105	15.697	-21.731	46.949	1.00	43.18	A C
ATOM	689	NZ	LYS	A	105	15.580	-20.652	47.972	1.00	56.25	A N
ATOM	690	C	LYS	A	105	18.996	-20.517	42.305	1.00	17.61	A C
ATOM	691	O	LYS	A	105	19.854	-19.760	42.731	1.00	16.33	A O
ATOM	692	N	ALA	A	106	19.065	-21.073	41.101	1.00	20.26	A N
ATOM	693	CA	ALA	A	106	20.181	-20.804	40.190	1.00	16.93	A C
ATOM	694	CB	ALA	A	106	20.057	-21.678	38.944	1.00	17.43	A C
ATOM	695	C	ALA	A	106	20.210	-19.329	39.788	1.00	17.29	A C
ATOM	696	O	ALA	A	106	21.270	-18.688	39.806	1.00	12.66	A O
ATOM	697	N	PHE	A	107	19.036	-18.815	39.415	1.00	9.08	A N
ATOM	698	CA	PHE	A	107	18.829	-17.421	39.001	1.00	13.11	A C
ATOM	699	CB	PHE	A	107	17.352	-17.227	38.612	1.00	14.68	A C
ATOM	700	CG	PHE	A	107	17.007	-15.836	38.103	1.00	15.84	A C
ATOM	701	CD1	PHE	A	107	17.904	-15.111	37.336	1.00	13.57	A C
ATOM	702	CD2	PHE	A	107	15.745	-15.298	38.334	1.00	13.50	A C
ATOM	703	CE1	PHE	A	107	17.554	-13.871	36.803	1.00	20.29	A C
ATOM	704	CE2	PHE	A	107	15.380	-14.048	37.801	1.00	13.71	A C

ATOM	705	CZ	PHE	A	107	16.283	-13.341	37.037	1.00	21.40	A C
ATOM	706	C	PHE	A	107	19.220	-16.492	40.166	1.00	16.84	A C
ATOM	707	O	PHE	A	107	19.872	-15.473	39.961	1.00	10.59	A O
ATOM	708	N	GLU	A	108	18.818	-16.840	41.387	1.00	14.91	A N
ATOM	709	CA	GLU	A	108	19.192	-16.022	42.548	1.00	18.62	A C
ATOM	710	CB	GLU	A	108	18.576	-16.592	43.835	1.00	16.27	A C
ATOM	711	CG	GLU	A	108	19.212	-16.037	45.103	1.00	39.52	A C
ATOM	712	CD	GLU	A	108	18.551	-16.547	46.377	1.00	48.74	A C
ATOM	713	OE1	GLU	A	108	18.557	-17.778	46.607	1.00	47.98	A O
ATOM	714	OE2	GLU	A	108	18.027	-15.709	47.148	1.00	51.97	A O
ATOM	715	C	GLU	A	108	20.715	-15.970	42.690	1.00	6.97	A C
ATOM	716	O	GLU	A	108	21.301	-14.906	42.904	1.00	16.27	A O
ATOM	717	N	ALA	A	109	21.361	-17.126	42.553	1.00	12.70	A N
ATOM	718	CA	ALA	A	109	22.807	-17.183	42.682	1.00	19.10	A C
ATOM	719	CB	ALA	A	109	23.274	-18.633	42.730	1.00	13.32	A C
ATOM	720	C	ALA	A	109	23.490	-16.434	41.543	1.00	19.28	A C
ATOM	721	O	ALA	A	109	24.481	-15.746	41.764	1.00	9.74	A O
ATOM	722	N	ALA	A	110	22.961	-16.546	40.327	1.00	13.14	A N
ATOM	723	CA	ALA	A	110	23.558	-15.836	39.192	1.00	11.39	A C
ATOM	724	CB	ALA	A	110	22.929	-16.331	37.864	1.00	12.98	A C
ATOM	725	C	ALA	A	110	23.378	-14.311	39.333	1.00	9.57	A C
ATOM	726	O	ALA	A	110	24.239	-13.546	38.915	1.00	11.86	A O
ATOM	727	N	LEU	A	111	22.253	-13.884	39.909	1.00	9.32	A N
ATOM	728	CA	LEU	A	111	21.958	-12.463	40.109	1.00	11.90	A C
ATOM	729	CB	LEU	A	111	20.492	-12.271	40.513	1.00	13.09	A C
ATOM	730	CG	LEU	A	111	19.424	-12.295	39.415	1.00	27.86	A C
ATOM	731	CD1	LEU	A	111	18.033	-12.116	40.046	1.00	17.42	A C
ATOM	732	CD2	LEU	A	111	19.705	-11.184	38.395	1.00	19.25	A C
ATOM	733	C	LEU	A	111	22.885	-11.867	41.186	1.00	10.22	A C
ATOM	734	O	LEU	A	111	23.241	-10.686	41.127	1.00	12.22	A O
ATOM	735	N	LYS	A	112	23.265	-12.692	42.165	1.00	16.22	A N
ATOM	736	CA	LYS	A	112	24.206	-12.265	43.193	1.00	13.17	A C
ATOM	737	CB	LYS	A	112	24.325	-13.323	44.291	1.00	18.66	A C
ATOM	738	CG	LYS	A	112	23.103	-13.407	45.180	1.00	23.99	A C
ATOM	739	CD	LYS	A	112	23.301	-14.442	46.281	1.00	33.83	A C
ATOM	740	CE	LYS	A	112	22.069	-14.549	47.181	1.00	32.16	A C
ATOM	741	NZ	LYS	A	112	22.203	-15.702	48.129	1.00	25.43	A N
ATOM	742	C	LYS	A	112	25.565	-12.074	42.500	1.00	19.29	A C
ATOM	743	O	LYS	A	112	26.306	-11.159	42.823	1.00	18.69	A O
ATOM	744	N	ASP	A	113	25.892	-12.946	41.542	1.00	17.99	A N
ATOM	745	CA	ASP	A	113	27.157	-12.827	40.803	1.00	14.56	A C
ATOM	746	CB	ASP	A	113	27.373	-14.051	39.894	1.00	17.60	A C
ATOM	747	CG	ASP	A	113	27.660	-15.331	40.672	1.00	27.23	A C
ATOM	748	OD1	ASP	A	113	27.640	-16.433	40.054	1.00	25.92	A O
ATOM	749	OD2	ASP	A	113	27.910	-15.244	41.895	1.00	31.65	A O
ATOM	750	C	ASP	A	113	27.126	-11.556	39.946	1.00	14.23	A C
ATOM	751	O	ASP	A	113	28.125	-10.833	39.825	1.00	11.48	A O
ATOM	752	N	THR	A	114	25.966	-11.269	39.364	1.00	10.89	A N
ATOM	753	CA	THR	A	114	25.822	-10.086	38.515	1.00	10.25	A C
ATOM	754	CB	THR	A	114	24.473	-10.136	37.751	1.00	13.28	A C
ATOM	755	OG1	THR	A	114	24.390	-11.372	37.014	1.00	16.85	A O
ATOM	756	CG2	THR	A	114	24.362	-8.977	36.795	1.00	13.80	A C
ATOM	757	C	THR	A	114	25.902	-8.800	39.349	1.00	13.65	A C
ATOM	758	O	THR	A	114	26.585	-7.857	38.984	1.00	13.01	A O
ATOM	759	N	ALA	A	115	25.197	-8.766	40.472	1.00	13.49	A N
ATOM	760	CA	ALA	A	115	25.213	-7.599	41.337	1.00	14.41	A C
ATOM	761	CB	ALA	A	115	24.278	-7.824	42.548	1.00	11.80	A C

ATOM	762	C	ALA	A	115	26.648	-7.297	41.804	1.00	20.09	A	C
ATOM	763	O	ALA	A	115	27.056	-6.138	41.864	1.00	13.42	A	O
ATOM	764	N	GLY	A	116	27.413	-8.338	42.120	1.00	18.22	A	N
ATOM	765	CA	GLY	A	116	28.790	-8.137	42.551	1.00	15.00	A	C
ATOM	766	C	GLY	A	116	29.828	-8.132	41.431	1.00	22.61	A	C
ATOM	767	O	GLY	A	116	31.021	-8.251	41.713	1.00	25.41	A	O
ATOM	768	N	HIS	A	117	29.408	-7.968	40.171	1.00	17.29	A	N
ATOM	769	CA	HIS	A	117	30.363	-7.995	39.046	1.00	17.40	A	C
ATOM	770	CB	HIS	A	117	29.666	-8.441	37.733	1.00	12.65	A	C
ATOM	771	CG	HIS	A	117	30.616	-8.690	36.598	1.00	16.24	A	C
ATOM	772	CD2	HIS	A	117	31.130	-7.851	35.666	1.00	13.17	A	C
ATOM	773	ND1	HIS	A	117	31.199	-9.919	36.366	1.00	21.02	A	N
ATOM	774	CE1	HIS	A	117	32.036	-9.825	35.348	1.00	17.94	A	C
ATOM	775	NE2	HIS	A	117	32.014	-8.579	34.907	1.00	17.37	A	N
ATOM	776	C	HIS	A	117	31.015	-6.631	38.828	1.00	16.72	A	C
ATOM	777	O	HIS	A	117	30.400	-5.737	38.238	1.00	15.90	A	O
ATOM	778	N	ASP	A	118	32.266	-6.482	39.277	1.00	21.29	A	N
ATOM	779	CA	ASP	A	118	32.978	-5.208	39.143	1.00	28.28	A	C
ATOM	780	CB	ASP	A	118	33.353	-4.643	40.512	1.00	33.26	A	C
ATOM	781	CG	ASP	A	118	34.077	-5.643	41.368	1.00	46.89	A	C
ATOM	782	OD1	ASP	A	118	34.942	-6.372	40.828	1.00	41.00	A	O
ATOM	783	OD2	ASP	A	118	33.778	-5.695	42.583	1.00	56.45	A	O
ATOM	784	C	ASP	A	118	34.230	-5.338	38.301	1.00	30.80	A	C
ATOM	785	O	ASP	A	118	35.217	-4.630	38.497	1.00	39.56	A	O
ATOM	786	N	GLN	A	120	34.186	-6.274	37.373	1.00	29.44	A	N
ATOM	787	CA	GLN	A	120	35.279	-6.482	36.458	1.00	30.04	A	C
ATOM	788	CB	GLN	A	120	35.695	-7.945	36.443	1.00	33.88	A	C
ATOM	789	CG	GLN	A	120	36.466	-8.356	37.671	1.00	51.09	A	C
ATOM	790	CD	GLN	A	120	36.867	-9.807	37.621	1.00	64.91	A	C
ATOM	791	OE1	GLN	A	120	37.543	-10.242	36.684	1.00	70.32	A	O
ATOM	792	NE2	GLN	A	120	36.449	-10.575	38.628	1.00	71.72	A	N
ATOM	793	C	GLN	A	120	34.688	-6.080	35.122	1.00	28.19	A	C
ATOM	794	O	GLN	A	120	33.485	-5.836	35.024	1.00	22.59	A	O
ATOM	795	N	PRO	A	122	35.523	-5.989	34.080	1.00	31.10	A	N
ATOM	796	CD	PRO	A	122	36.974	-6.257	34.048	1.00	30.71	A	C
ATOM	797	CA	PRO	A	122	35.028	-5.606	32.756	1.00	29.18	A	C
ATOM	798	CB	PRO	A	122	36.252	-5.782	31.871	1.00	26.79	A	C
ATOM	799	CG	PRO	A	122	37.397	-5.497	32.824	1.00	36.70	A	C
ATOM	800	C	PRO	A	122	33.887	-6.524	32.324	1.00	24.00	A	C
ATOM	801	O	PRO	A	122	33.786	-7.651	32.791	1.00	15.70	A	O
ATOM	802	N	ILE	A	123	33.010	-6.034	31.460	1.00	20.11	A	N
ATOM	803	CA	ILE	A	123	31.931	-6.884	30.977	1.00	21.67	A	C
ATOM	804	CB	ILE	A	123	30.937	-6.082	30.157	1.00	11.33	A	C
ATOM	805	CG2	ILE	A	123	29.853	-7.000	29.615	1.00	15.20	A	C
ATOM	806	CG1	ILE	A	123	30.355	-4.967	31.023	1.00	12.04	A	C
ATOM	807	CD1	ILE	A	123	29.606	-3.907	30.233	1.00	14.59	A	C
ATOM	808	C	ILE	A	123	32.593	-7.937	30.083	1.00	27.63	A	C
ATOM	809	O	ILE	A	123	33.367	-7.601	29.177	1.00	22.69	A	O
ATOM	810	N	PRO	A	124	32.304	-9.225	30.323	1.00	21.46	A	N
ATOM	811	CD	PRO	A	124	31.460	-9.849	31.362	1.00	19.97	A	C
ATOM	812	CA	PRO	A	124	32.951	-10.216	29.458	1.00	26.37	A	C
ATOM	813	CB	PRO	A	124	32.611	-11.553	30.130	1.00	25.58	A	C
ATOM	814	CG	PRO	A	124	31.317	-11.278	30.867	1.00	22.55	A	C
ATOM	815	C	PRO	A	124	32.530	-10.150	27.980	1.00	32.18	A	C
ATOM	816	O	PRO	A	124	31.381	-9.830	27.653	1.00	23.00	A	O
ATOM	817	N	GLY	A	125	33.493	-10.424	27.101	1.00	29.60	A	N
ATOM	818	CA	GLY	A	125	33.256	-10.436	25.665	1.00	28.31	A	C

ATOM	819	C	GLY	A	125	32.865	-9.145	24.967	1.00	24.15	A	C
ATOM	820	O	GLY	A	125	32.163	-9.196	23.963	1.00	21.33	A	O
ATOM	821	N	VAL	A	126	33.309	-7.994	25.466	1.00	18.26	A	N
ATOM	822	CA	VAL	A	126	32.951	-6.734	24.828	1.00	18.63	A	C
ATOM	823	CB	VAL	A	126	32.613	-5.658	25.882	1.00	17.48	A	C
ATOM	824	CG1	VAL	A	126	32.272	-4.342	25.202	1.00	17.09	A	C
ATOM	825	CG2	VAL	A	126	31.428	-6.117	26.711	1.00	20.23	A	C
ATOM	826	C	VAL	A	126	34.044	-6.200	23.893	1.00	25.62	A	C
ATOM	827	O	VAL	A	126	35.045	-5.639	24.344	1.00	19.13	A	O
ATOM	828	N	SER	A	127	33.855	-6.397	22.589	1.00	21.73	A	N
ATOM	829	CA	SER	A	127	34.804	-5.906	21.586	1.00	14.25	A	C
ATOM	830	CB	SER	A	127	36.151	-6.653	21.675	1.00	13.16	A	C
ATOM	831	OG	SER	A	127	36.067	-7.972	21.148	1.00	13.25	A	O
ATOM	832	C	SER	A	127	34.190	-6.110	20.206	1.00	22.21	A	C
ATOM	833	O	SER	A	127	33.185	-6.834	20.069	1.00	11.17	A	O
ATOM	834	N	GLU	A	128	34.789	-5.474	19.196	1.00	13.96	A	N
ATOM	835	CA	GLU	A	128	34.310	-5.589	17.828	1.00	18.11	A	C
ATOM	836	CB	GLU	A	128	35.053	-4.609	16.894	1.00	14.23	A	C
ATOM	837	CG	GLU	A	128	36.404	-5.099	16.387	1.00	23.00	A	C
ATOM	838	CD	GLU	A	128	36.987	-4.214	15.284	1.00	28.63	A	C
ATOM	839	OE1	GLU	A	128	36.251	-3.368	14.725	1.00	33.10	A	O
ATOM	840	OE2	GLU	A	128	38.185	-4.376	14.967	1.00	29.81	A	O
ATOM	841	C	GLU	A	128	34.467	-7.031	17.322	1.00	10.83	A	C
ATOM	842	O	GLU	A	128	33.784	-7.436	16.398	1.00	16.05	A	O
ATOM	843	N	LEU	A	129	35.337	-7.817	17.949	1.00	14.06	A	N
ATOM	844	CA	LEU	A	129	35.544	-9.223	17.537	1.00	19.98	A	C
ATOM	845	CB	LEU	A	129	36.957	-9.683	17.922	1.00	10.11	A	C
ATOM	846	CG	LEU	A	129	38.143	-8.928	17.297	1.00	16.15	A	C
ATOM	847	CD1	LEU	A	129	39.460	-9.454	17.881	1.00	21.25	A	C
ATOM	848	CD2	LEU	A	129	38.135	-9.112	15.802	1.00	21.73	A	C
ATOM	849	C	LEU	A	129	34.518	-10.233	18.120	1.00	16.10	A	C
ATOM	850	O	LEU	A	129	34.042	-11.127	17.418	1.00	16.31	A	O
ATOM	851	N	GLU	A	130	34.175	-10.054	19.392	1.00	17.31	A	N
ATOM	852	CA	GLU	A	130	33.269	-10.926	20.137	1.00	11.35	A	C
ATOM	853	CB	GLU	A	130	33.877	-11.170	21.518	1.00	12.94	A	C
ATOM	854	CG	GLU	A	130	35.321	-11.654	21.452	1.00	19.12	A	C
ATOM	855	CD	GLU	A	130	36.019	-11.566	22.808	1.00	42.17	A	C
ATOM	856	OE1	GLU	A	130	35.667	-12.344	23.729	1.00	32.97	A	O
ATOM	857	OE2	GLU	A	130	36.910	-10.698	22.954	1.00	49.70	A	O
ATOM	858	C	GLU	A	130	31.844	-10.449	20.351	1.00	15.91	A	C
ATOM	859	O	GLU	A	130	31.010	-11.211	20.826	1.00	19.80	A	O
ATOM	860	N	CYS	A	131	31.551	-9.197	20.031	1.00	15.39	A	N
ATOM	861	CA	CYS	A	131	30.208	-8.680	20.270	1.00	10.67	A	C
ATOM	862	CB	CYS	A	131	30.246	-7.787	21.514	1.00	14.03	A	C
ATOM	863	SG	CYS	A	131	28.689	-6.919	21.909	1.00	17.51	A	S
ATOM	864	C	CYS	A	131	29.641	-7.906	19.079	1.00	20.38	A	C
ATOM	865	O	CYS	A	131	30.357	-7.104	18.484	1.00	22.95	A	O
ATOM	866	N	GLY	A	132	28.355	-8.125	18.759	1.00	14.37	A	N
ATOM	867	CA	GLY	A	132	27.718	-7.432	17.634	1.00	6.82	A	C
ATOM	868	C	GLY	A	132	27.334	-5.955	17.792	1.00	12.57	A	C
ATOM	869	O	GLY	A	132	26.937	-5.302	16.816	1.00	15.78	A	O
ATOM	870	N	ASN	A	133	27.445	-5.417	19.003	1.00	12.49	A	N
ATOM	871	CA	ASN	A	133	27.136	-4.003	19.275	1.00	13.27	A	C
ATOM	872	CB	ASN	A	133	25.611	-3.823	19.486	1.00	13.63	A	C
ATOM	873	CG	ASN	A	133	25.173	-2.359	19.413	1.00	16.39	A	C
ATOM	874	OD1	ASN	A	133	25.984	-1.475	19.149	1.00	23.14	A	O
ATOM	875	ND2	ASN	A	133	23.882	-2.105	19.639	1.00	13.74	A	N

ATOM	876	C	ASN	A	133	27.921	-3.623	20.545	1.00	14.95	A C
ATOM	877	O	ASN	A	133	27.346	-3.209	21.559	1.00	12.64	A O
ATOM	878	N	TYR	A	134	29.245	-3.743	20.464	1.00	13.48	A N
ATOM	879	CA	TYR	A	134	30.119	-3.511	21.611	1.00	15.69	A C
ATOM	880	CB	TYR	A	134	31.586	-3.820	21.228	1.00	11.51	A C
ATOM	881	CG	TYR	A	134	32.299	-2.803	20.349	1.00	16.13	A C
ATOM	882	CD1	TYR	A	134	32.918	-1.683	20.909	1.00	16.76	A C
ATOM	883	CE1	TYR	A	134	33.563	-0.748	20.115	1.00	21.93	A C
ATOM	884	CD2	TYR	A	134	32.352	-2.962	18.961	1.00	14.00	A C
ATOM	885	CE2	TYR	A	134	33.002	-2.037	18.156	1.00	15.40	A C
ATOM	886	CZ	TYR	A	134	33.602	-0.930	18.739	1.00	16.79	A C
ATOM	887	OH	TYR	A	134	34.215	0.005	17.953	1.00	16.19	A O
ATOM	888	C	TYR	A	134	30.004	-2.158	22.297	1.00	19.10	A C
ATOM	889	O	TYR	A	134	30.324	-2.033	23.475	1.00	16.40	A O
ATOM	890	N	ARG	A	135	29.504	-1.162	21.577	1.00	13.48	A N
ATOM	891	CA	ARG	A	135	29.355	0.173	22.129	1.00	17.81	A C
ATOM	892	CB	ARG	A	135	29.318	1.212	21.002	1.00	17.87	A C
ATOM	893	CG	ARG	A	135	30.505	1.225	20.055	1.00	18.40	A C
ATOM	894	CD	ARG	A	135	30.253	2.292	18.979	1.00	22.58	A C
ATOM	895	NE	ARG	A	135	31.216	2.299	17.880	1.00	21.73	A N
ATOM	896	CZ	ARG	A	135	31.149	1.517	16.798	1.00	32.70	A C
ATOM	897	NH1	ARG	A	135	30.163	0.640	16.648	1.00	23.62	A N
ATOM	898	NH2	ARG	A	135	32.057	1.637	15.837	1.00	21.59	A N
ATOM	899	C	ARG	A	135	28.083	0.357	22.950	1.00	22.67	A C
ATOM	900	O	ARG	A	135	27.910	1.400	23.565	1.00	23.37	A O
ATOM	901	N	ASP	A	136	27.191	-0.632	22.958	1.00	21.27	A N
ATOM	902	CA	ASP	A	136	25.919	-0.490	23.669	1.00	19.76	A C
ATOM	903	CB	ASP	A	136	24.766	-0.848	22.725	1.00	25.96	A C
ATOM	904	CG	ASP	A	136	23.407	-0.449	23.282	1.00	35.02	A C
ATOM	905	OD1	ASP	A	136	23.261	0.724	23.695	1.00	30.86	A O
ATOM	906	OD2	ASP	A	136	22.486	-1.304	23.295	1.00	31.13	A O
ATOM	907	C	ASP	A	136	25.832	-1.338	24.931	1.00	15.45	A C
ATOM	908	O	ASP	A	136	25.137	-2.357	24.961	1.00	12.90	A O
ATOM	909	N	HIS	A	137	26.514	-0.883	25.976	1.00	13.56	A N
ATOM	910	CA	HIS	A	137	26.572	-1.587	27.243	1.00	13.55	A C
ATOM	911	CB	HIS	A	137	27.910	-2.324	27.342	1.00	13.83	A C
ATOM	912	CG	HIS	A	137	27.920	-3.653	26.638	1.00	10.47	A C
ATOM	913	CD2	HIS	A	137	28.437	-4.028	25.441	1.00	3.47	A C
ATOM	914	ND1	HIS	A	137	27.319	-4.775	27.164	1.00	8.78	A N
ATOM	915	CE1	HIS	A	137	27.470	-5.788	26.327	1.00	15.16	A C
ATOM	916	NE2	HIS	A	137	28.145	-5.363	25.271	1.00	13.69	A N
ATOM	917	C	HIS	A	137	26.384	-0.689	28.460	1.00	16.43	A C
ATOM	918	O	HIS	A	137	26.637	0.509	28.397	1.00	17.29	A O
ATOM	919	N	ASP	A	138	25.926	-1.268	29.568	1.00	14.80	A N
ATOM	920	CA	ASP	A	138	25.731	-0.483	30.799	1.00	14.65	A C
ATOM	921	CB	ASP	A	138	24.364	0.212	30.798	1.00	15.43	A C
ATOM	922	CG	ASP	A	138	24.316	1.428	31.749	1.00	27.21	A C
ATOM	923	OD1	ASP	A	138	25.100	1.480	32.728	1.00	20.53	A O
ATOM	924	OD2	ASP	A	138	23.487	2.331	31.522	1.00	23.27	A O
ATOM	925	C	ASP	A	138	25.852	-1.393	32.025	1.00	13.55	A C
ATOM	926	O	ASP	A	138	24.860	-1.952	32.509	1.00	15.57	A O
ATOM	927	N	LEU	A	139	27.084	-1.542	32.508	1.00	12.51	A N
ATOM	928	CA	LEU	A	139	27.378	-2.377	33.656	1.00	10.58	A C
ATOM	929	CB	LEU	A	139	28.887	-2.424	33.920	1.00	14.93	A C
ATOM	930	CG	LEU	A	139	29.342	-3.415	35.006	1.00	17.48	A C
ATOM	931	CD1	LEU	A	139	28.729	-4.813	34.783	1.00	11.98	A C
ATOM	932	CD2	LEU	A	139	30.862	-3.476	34.979	1.00	15.50	A C

ATOM	933	C	LEU	A	139	26.668	-1.877	34.893	1.00	13.20	A	C
ATOM	934	O	LEU	A	139	25.967	-2.637	35.568	1.00	14.65	A	O
ATOM	935	N	ALA	A	140	26.867	-0.604	35.207	1.00	16.98	A	N
ATOM	936	CA	ALA	A	140	26.230	0.003	36.363	1.00	12.48	A	C
ATOM	937	CB	ALA	A	140	26.437	1.524	36.341	1.00	12.03	A	C
ATOM	938	C	ALA	A	140	24.740	-0.311	36.423	1.00	15.56	A	C
ATOM	939	O	ALA	A	140	24.251	-0.804	37.439	1.00	13.25	A	O
ATOM	940	N	ALA	A	141	24.007	-0.009	35.351	1.00	18.45	A	N
ATOM	941	CA	ALA	A	141	22.560	-0.267	35.341	1.00	13.30	A	C
ATOM	942	CB	ALA	A	141	21.908	0.369	34.113	1.00	20.15	A	C
ATOM	943	C	ALA	A	141	22.237	-1.748	35.397	1.00	11.89	A	C
ATOM	944	O	ALA	A	141	21.233	-2.125	35.980	1.00	13.88	A	O
ATOM	945	N	ALA	A	142	23.089	-2.590	34.803	1.00	10.05	A	N
ATOM	946	CA	ALA	A	142	22.869	-4.036	34.816	1.00	12.22	A	C
ATOM	947	CB	ALA	A	142	23.923	-4.744	33.929	1.00	7.20	A	C
ATOM	948	C	ALA	A	142	22.968	-4.555	36.259	1.00	13.91	A	C
ATOM	949	O	ALA	A	142	22.103	-5.292	36.728	1.00	6.13	A	O
ATOM	950	N	ARG	A	143	24.028	-4.157	36.954	1.00	11.19	A	N
ATOM	951	CA	ARG	A	143	24.235	-4.574	38.338	1.00	12.87	A	C
ATOM	952	CB	ARG	A	143	25.573	-4.060	38.864	1.00	13.19	A	C
ATOM	953	CG	ARG	A	143	26.781	-4.646	38.168	1.00	17.28	A	C
ATOM	954	CD	ARG	A	143	28.068	-3.988	38.691	1.00	11.77	A	C
ATOM	955	NE	ARG	A	143	28.357	-4.400	40.062	1.00	21.53	A	N
ATOM	956	CZ	ARG	A	143	29.300	-3.851	40.822	1.00	26.38	A	C
ATOM	957	NH1	ARG	A	143	30.036	-2.860	40.336	1.00	11.90	A	N
ATOM	958	NH2	ARG	A	143	29.519	-4.307	42.058	1.00	15.90	A	N
ATOM	959	C	ARG	A	143	23.138	-4.084	39.259	1.00	11.97	A	C
ATOM	960	O	ARG	A	143	22.770	-4.794	40.186	1.00	18.15	A	O
ATOM	961	N	GLN	A	144	22.618	-2.879	39.017	1.00	11.02	A	N
ATOM	962	CA	GLN	A	144	21.548	-2.346	39.868	1.00	11.33	A	C
ATOM	963	CB	GLN	A	144	21.348	-0.847	39.624	1.00	15.76	A	C
ATOM	964	CG	GLN	A	144	20.516	-0.158	40.724	1.00	21.72	A	C
ATOM	965	CD	GLN	A	144	20.844	-0.681	42.133	1.00	24.10	A	C
ATOM	966	OE1	GLN	A	144	22.007	-0.684	42.568	1.00	27.41	A	O
ATOM	967	NE2	GLN	A	144	19.816	-1.128	42.847	1.00	26.24	A	N
ATOM	968	C	GLN	A	144	20.207	-3.083	39.680	1.00	16.90	A	C
ATOM	969	O	GLN	A	144	19.411	-3.201	40.620	1.00	10.99	A	O
ATOM	970	N	HIS	A	145	19.961	-3.575	38.468	1.00	17.89	A	N
ATOM	971	CA	HIS	A	145	18.730	-4.325	38.183	1.00	10.89	A	C
ATOM	972	CB	HIS	A	145	18.548	-4.547	36.677	1.00	12.52	A	C
ATOM	973	CG	HIS	A	145	17.903	-3.392	35.972	1.00	14.19	A	C
ATOM	974	CD2	HIS	A	145	18.353	-2.587	34.978	1.00	17.79	A	C
ATOM	975	ND1	HIS	A	145	16.615	-2.981	36.243	1.00	22.07	A	N
ATOM	976	CE1	HIS	A	145	16.297	-1.977	35.444	1.00	14.17	A	C
ATOM	977	NE2	HIS	A	145	17.335	-1.718	34.665	1.00	16.09	A	N
ATOM	978	C	HIS	A	145	18.780	-5.673	38.884	1.00	9.24	A	C
ATOM	979	O	HIS	A	145	17.753	-6.142	39.375	1.00	11.40	A	O
ATOM	980	N	ALA	A	146	19.962	-6.303	38.925	1.00	9.60	A	N
ATOM	981	CA	ALA	A	146	20.097	-7.592	39.602	1.00	15.70	A	C
ATOM	982	CB	ALA	A	146	21.521	-8.179	39.416	1.00	9.26	A	C
ATOM	983	C	ALA	A	146	19.816	-7.328	41.077	1.00	15.03	A	C
ATOM	984	O	ALA	A	146	19.023	-8.026	41.697	1.00	12.77	A	O
ATOM	985	N	ARG	A	147	20.440	-6.286	41.622	1.00	12.09	A	N
ATOM	986	CA	ARG	A	147	20.222	-5.937	43.021	1.00	9.46	A	C
ATOM	987	CB	ARG	A	147	21.122	-4.760	43.421	1.00	20.28	A	C
ATOM	988	CG	ARG	A	147	20.935	-4.314	44.859	1.00	33.45	A	C
ATOM	989	CD	ARG	A	147	20.942	-5.508	45.836	1.00	52.29	A	C

ATOM	990	NE	ARG	A	147	22.161	-6.321	45.757	1.00	53.81	A	N
ATOM	991	CZ	ARG	A	147	22.381	-7.425	46.471	1.00	54.97	A	C
ATOM	992	NH1	ARG	A	147	21.470	-7.864	47.332	1.00	60.54	A	N
ATOM	993	NH2	ARG	A	147	23.509	-8.103	46.318	1.00	56.32	A	N
ATOM	994	C	ARG	A	147	18.758	-5.628	43.356	1.00	16.63	A	C
ATOM	995	O	ARG	A	147	18.278	-6.041	44.403	1.00	13.01	A	O
ATOM	996	N	ASP	A	148	18.044	-4.917	42.479	1.00	10.01	A	N
ATOM	997	CA	ASP	A	148	16.634	-4.597	42.727	1.00	15.72	A	C
ATOM	998	CB	ASP	A	148	16.056	-3.677	41.627	1.00	20.03	A	C
ATOM	999	CG	ASP	A	148	16.695	-2.303	41.616	1.00	36.94	A	C
ATOM	1000	OD1	ASP	A	148	17.192	-1.874	42.684	1.00	37.98	A	O
ATOM	1001	OD2	ASP	A	148	16.688	-1.647	40.546	1.00	38.07	A	O
ATOM	1002	C	ASP	A	148	15.793	-5.867	42.789	1.00	16.48	A	C
ATOM	1003	O	ASP	A	148	14.863	-5.962	43.585	1.00	18.10	A	O
ATOM	1004	N	VAL	A	149	16.108	-6.840	41.939	1.00	14.99	A	N
ATOM	1005	CA	VAL	A	149	15.371	-8.095	41.951	1.00	10.06	A	C
ATOM	1006	CB	VAL	A	149	15.754	-8.990	40.732	1.00	12.96	A	C
ATOM	1007	CG1	VAL	A	149	15.276	-10.431	40.966	1.00	7.76	A	C
ATOM	1008	CG2	VAL	A	149	15.125	-8.407	39.447	1.00	10.57	A	C
ATOM	1009	C	VAL	A	149	15.630	-8.838	43.265	1.00	10.18	A	C
ATOM	1010	O	VAL	A	149	14.701	-9.385	43.877	1.00	8.50	A	O
ATOM	1011	N	LEU	A	150	16.878	-8.852	43.725	1.00	13.95	A	N
ATOM	1012	CA	LEU	A	150	17.177	-9.540	44.993	1.00	14.96	A	C
ATOM	1013	CB	LEU	A	150	18.691	-9.639	45.217	1.00	10.64	A	C
ATOM	1014	CG	LEU	A	150	19.364	-10.511	44.133	1.00	21.71	A	C
ATOM	1015	CD1	LEU	A	150	20.862	-10.396	44.216	1.00	17.96	A	C
ATOM	1016	CD2	LEU	A	150	18.920	-11.969	44.288	1.00	21.28	A	C
ATOM	1017	C	LEU	A	150	16.527	-8.842	46.190	1.00	16.83	A	C
ATOM	1018	O	LEU	A	150	16.152	-9.501	47.165	1.00	11.71	A	O
ATOM	1019	N	ASP	A	151	16.391	-7.518	46.119	1.00	14.00	A	N
ATOM	1020	CA	ASP	A	151	15.781	-6.769	47.220	1.00	23.80	A	C
ATOM	1021	CB	ASP	A	151	16.000	-5.259	47.060	1.00	29.42	A	C
ATOM	1022	CG	ASP	A	151	17.468	-4.869	47.100	1.00	45.55	A	C
ATOM	1023	OD1	ASP	A	151	18.219	-5.473	47.900	1.00	44.69	A	O
ATOM	1024	OD2	ASP	A	151	17.864	-3.948	46.340	1.00	44.67	A	O
ATOM	1025	C	ASP	A	151	14.284	-7.036	47.304	1.00	22.42	A	C
ATOM	1026	O	ASP	A	151	13.723	-7.171	48.397	1.00	16.94	A	O
ATOM	1027	N	GLN	A	152	13.638	-7.108	46.146	1.00	17.27	A	N
ATOM	1028	CA	GLN	A	152	12.207	-7.355	46.104	1.00	20.24	A	C
ATOM	1029	CB	GLN	A	152	11.672	-7.092	44.698	1.00	10.36	A	C
ATOM	1030	CG	GLN	A	152	11.696	-5.635	44.326	1.00	20.77	A	C
ATOM	1031	CD	GLN	A	152	11.262	-5.430	42.901	1.00	28.52	A	C
ATOM	1032	OE1	GLN	A	152	10.084	-5.567	42.562	1.00	39.04	A	O
ATOM	1033	NE2	GLN	A	152	12.215	-5.126	42.048	1.00	25.26	A	N
ATOM	1034	C	GLN	A	152	11.895	-8.784	46.504	1.00	21.09	A	C
ATOM	1035	O	GLN	A	152	10.876	-9.045	47.135	1.00	18.87	A	O
ATOM	1036	N	GLY	A	153	12.783	-9.698	46.123	1.00	16.35	A	N
ATOM	1037	CA	GLY	A	153	12.594	-11.102	46.436	1.00	13.39	A	C
ATOM	1038	C	GLY	A	153	11.895	-11.889	45.332	1.00	17.37	A	C
ATOM	1039	O	GLY	A	153	10.785	-11.561	44.914	1.00	16.75	A	O
ATOM	1040	N	LEU	A	154	12.550	-12.949	44.879	1.00	10.16	A	N
ATOM	1041	CA	LEU	A	154	12.020	-13.816	43.832	1.00	16.66	A	C
ATOM	1042	CB	LEU	A	154	13.175	-14.612	43.189	1.00	9.28	A	C
ATOM	1043	CG	LEU	A	154	14.008	-14.018	42.059	1.00	22.46	A	C
ATOM	1044	CD1	LEU	A	154	15.245	-14.905	41.827	1.00	14.29	A	C
ATOM	1045	CD2	LEU	A	154	13.149	-13.921	40.783	1.00	13.60	A	C
ATOM	1046	C	LEU	A	154	10.999	-14.817	44.378	1.00	16.31	A	C

ATOM	1047	O	LEU	A	154	10.924	-15.042	45.578	1.00	15.93	A	O
ATOM	1048	N	LYS	A	155	10.205	-15.403	43.485	1.00	17.80	A	N
ATOM	1049	CA	LYS	A	155	9.261	-16.452	43.864	1.00	16.92	A	C
ATOM	1050	CB	LYS	A	155	8.037	-15.873	44.590	1.00	16.23	A	C
ATOM	1051	CG	LYS	A	155	6.858	-15.479	43.709	1.00	21.69	A	C
ATOM	1052	CD	LYS	A	155	7.102	-14.176	42.976	1.00	21.23	A	C
ATOM	1053	CE	LYS	A	155	7.264	-13.003	43.921	1.00	22.65	A	C
ATOM	1054	NZ	LYS	A	155	7.596	-11.734	43.170	1.00	18.10	A	N
ATOM	1055	C	LYS	A	155	8.862	-17.205	42.587	1.00	21.03	A	C
ATOM	1056	O	LYS	A	155	9.080	-16.704	41.482	1.00	14.69	A	O
ATOM	1057	N	VAL	A	156	8.337	-18.421	42.717	1.00	12.47	A	N
ATOM	1058	CA	VAL	A	156	7.918	-19.162	41.538	1.00	13.23	A	C
ATOM	1059	CB	VAL	A	156	7.983	-20.698	41.767	1.00	16.31	A	C
ATOM	1060	CG1	VAL	A	156	7.324	-21.451	40.611	1.00	12.08	A	C
ATOM	1061	CG2	VAL	A	156	9.440	-21.120	41.891	1.00	14.69	A	C
ATOM	1062	C	VAL	A	156	6.494	-18.690	41.259	1.00	15.30	A	C
ATOM	1063	O	VAL	A	156	5.628	-18.754	42.116	1.00	10.85	A	O
ATOM	1064	N	GLN	A	157	6.287	-18.165	40.057	1.00	14.51	A	N
ATOM	1065	CA	GLN	A	157	4.997	-17.621	39.634	1.00	13.24	A	C
ATOM	1066	CB	GLN	A	157	5.225	-16.382	38.755	1.00	6.83	A	C
ATOM	1067	CG	GLN	A	157	3.981	-15.936	38.001	1.00	13.53	A	C
ATOM	1068	CD	GLN	A	157	3.027	-15.224	38.921	1.00	11.91	A	C
ATOM	1069	OE1	GLN	A	157	3.385	-14.192	39.489	1.00	15.06	A	O
ATOM	1070	NE2	GLN	A	157	1.806	-15.766	39.085	1.00	8.62	A	N
ATOM	1071	C	GLN	A	157	4.167	-18.619	38.842	1.00	10.39	A	C
ATOM	1072	O	GLN	A	157	4.631	-19.129	37.819	1.00	13.43	A	O
ATOM	1073	N	GLU	A	158	2.949	-18.886	39.299	1.00	12.71	A	N
ATOM	1074	CA	GLU	A	158	2.078	-19.814	38.573	1.00	15.83	A	C
ATOM	1075	CB	GLU	A	158	0.890	-20.252	39.428	1.00	29.60	A	C
ATOM	1076	CG	GLU	A	158	-0.206	-19.207	39.531	1.00	40.98	A	C
ATOM	1077	CD	GLU	A	158	-1.248	-19.538	40.590	1.00	53.57	A	C
ATOM	1078	OE1	GLU	A	158	-0.919	-19.441	41.794	1.00	62.63	A	O
ATOM	1079	OE2	GLU	A	158	-2.393	-19.895	40.224	1.00	43.95	A	O
ATOM	1080	C	GLU	A	158	1.550	-19.117	37.325	1.00	12.21	A	C
ATOM	1081	O	GLU	A	158	1.385	-17.893	37.286	1.00	19.30	A	O
ATOM	1082	N	THR	A	159	1.297	-19.911	36.302	1.00	14.28	A	N
ATOM	1083	CA	THR	A	159	0.777	-19.407	35.052	1.00	14.77	A	C
ATOM	1084	CB	THR	A	159	1.129	-20.355	33.922	1.00	15.25	A	C
ATOM	1085	OG1	THR	A	159	2.542	-20.289	33.689	1.00	15.41	A	O
ATOM	1086	CG2	THR	A	159	0.366	-20.012	32.658	1.00	7.18	A	C
ATOM	1087	C	THR	A	159	-0.721	-19.276	35.143	1.00	16.67	A	C
ATOM	1088	O	THR	A	159	-1.421	-20.267	35.279	1.00	22.88	A	O
ATOM	1089	N	ILE	A	160	-1.210	-18.043	35.090	1.00	18.47	A	N
ATOM	1090	CA	ILE	A	160	-2.649	-17.802	35.122	1.00	16.79	A	C
ATOM	1091	CB	ILE	A	160	-3.008	-16.463	35.815	1.00	26.76	A	C
ATOM	1092	CG2	ILE	A	160	-4.532	-16.267	35.810	1.00	19.74	A	C
ATOM	1093	CG1	ILE	A	160	-2.449	-16.438	37.240	1.00	26.22	A	C
ATOM	1094	CD1	ILE	A	160	-3.066	-17.448	38.149	1.00	34.89	A	C
ATOM	1095	C	ILE	A	160	-2.955	-17.681	33.639	1.00	18.57	A	C
ATOM	1096	O	ILE	A	160	-2.433	-16.782	32.983	1.00	15.19	A	O
ATOM	1097	N	LEU	A	161	-3.774	-18.584	33.105	1.00	18.71	A	N
ATOM	1098	CA	LEU	A	161	-4.095	-18.578	31.674	1.00	23.14	A	C
ATOM	1099	CB	LEU	A	161	-4.596	-19.959	31.236	1.00	31.06	A	C
ATOM	1100	CG	LEU	A	161	-3.569	-21.051	30.942	1.00	35.02	A	C
ATOM	1101	CD1	LEU	A	161	-2.651	-20.574	29.832	1.00	25.74	A	C
ATOM	1102	CD2	LEU	A	161	-2.779	-21.369	32.199	1.00	48.97	A	C
ATOM	1103	C	LEU	A	161	-5.099	-17.541	31.193	1.00	20.95	A	C

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ATOM   1104  O   LEU A 161      -5.964 -17.099  31.942  1.00 19.24      A    O
ATOM   1105  N   LEU A 162      -4.979 -17.203  29.912  1.00 28.73      A    N
ATOM   1106  CA  LEU A 162      -5.830 -16.246  29.200  1.00 35.67      A    C
ATOM   1107  CB  LEU A 162      -7.285 -16.341  29.683  1.00 28.25      A    C
ATOM   1108  CG  LEU A 162      -8.076 -17.583  29.282  1.00 26.44      A    C
ATOM   1109  CD1 LEU A 162      -9.569 -17.289  29.454  1.00 35.41      A    C
ATOM   1110  CD2 LEU A 162      -7.793 -17.950  27.840  1.00 31.72      A    C
ATOM   1111  C   LEU A 162      -5.364 -14.789  29.238  1.00 42.17      A    C
ATOM   1112  O   LEU A 162      -4.627 -14.389  28.313  1.00 38.76      A    O
ATOM   1113  OXT LEU A 162      -5.727 -14.057  30.185  1.00 57.82      A    O
TER    1114      LEU A 162                                               A
ATOM   1115  NI  NI  C   1      27.093  -8.315  22.836  1.00 20.22      C    N
TER    1116      NI  C   1                                               C
ATOM   1117  O   HOH     1      26.529  -9.998  21.155  1.00  9.01      W    O
ATOM   1118  O   HOH     2      32.313  -6.359  14.325  1.00 15.78      W    O
ATOM   1119  O   HOH     3       9.277 -19.212  21.240  1.00 25.21      W    O
ATOM   1120  O   HOH     4       8.066 -19.364  45.537  1.00 13.07      W    O
ATOM   1121  O   HOH     5       3.763 -22.150  34.716  1.00 17.00      W    O
ATOM   1122  O   HOH     6       5.051 -21.671  36.968  1.00 17.04      W    O
ATOM   1123  O   HOH     7      22.412  -3.456  21.686  1.00 20.65      W    O
ATOM   1124  O   HOH     8      24.432 -25.210  31.647  1.00 17.79      W    O
ATOM   1125  O   HOH     9      25.348  -0.269  39.913  1.00 24.03      W    O
ATOM   1126  O   HOH    10      29.556  -0.279  31.325  1.00 17.29      W    O
ATOM   1127  O   HOH    11       7.721 -31.455  19.723  1.00 25.93      W    O
ATOM   1128  O   HOH    12       8.542  -4.100  38.392  1.00 17.13      W    O
ATOM   1129  O   HOH    13      17.269   0.361  32.560  1.00 19.49      W    O
ATOM   1130  O   HOH    14      20.515 -19.261  45.444  1.00 23.00      W    O
ATOM   1131  O   HOH    15      29.333 -17.987  39.227  1.00 24.84      W    O
ATOM   1132  O   HOH    16       7.248  -2.713  29.895  1.00 23.60      W    O
ATOM   1133  O   HOH    17      24.531 -24.067  25.418  1.00 25.80      W    O
ATOM   1134  O   HOH    18      28.966  -0.965  18.426  1.00 14.45      W    O
ATOM   1135  O   HOH    19      35.169   2.130  18.856  1.00 23.46      W    O
ATOM   1136  O   HOH    20      -0.517 -14.490  40.399  1.00 18.98      W    O
ATOM   1137  O   HOH    21      23.861 -22.806  22.997  1.00 29.32      W    O
ATOM   1138  O   HOH    22      19.334  -0.010  36.805  1.00 26.48      W    O
ATOM   1139  O   HOH    23      12.960  -4.497  22.265  1.00 20.30      W    O
ATOM   1140  O   HOH    24      14.594 -27.486  33.790  1.00 15.87      W    O
ATOM   1141  O   HOH    25      -7.026 -14.666  33.478  1.00 22.13      W    O
ATOM   1142  O   HOH    26      -0.526  -8.320  39.045  1.00 19.25      W    O
ATOM   1143  O   HOH    27      26.321  -9.594  45.185  1.00 22.75      W    O
ATOM   1144  O   HOH    28      26.196 -16.352  43.759  1.00 24.17      W    O
ATOM   1145  O   HOH    29       1.173  -6.442  34.854  1.00 23.76      W    O
ATOM   1146  O   HOH    30       4.002 -18.875  28.643  1.00 18.46      W    O
ATOM   1147  O   HOH    31      16.494 -12.088  47.454  1.00 23.46      W    O
ATOM   1148  O   HOH    32       2.291 -17.436  41.826  1.00 23.97      W    O
ATOM   1149  O   HOH    33      33.453  -3.132  30.601  1.00 22.60      W    O
ATOM   1150  O   HOH    34      28.624 -17.849  42.744  1.00 34.06      W    O
ATOM   1151  O   HOH    35      11.059 -13.307  47.825  1.00 27.03      W    O
ATOM   1152  O   HOH    36       6.372 -30.876  22.108  1.00 22.20      W    O
ATOM   1153  O   HOH    37      21.110 -13.978  22.553  1.00 41.55      W    O
ATOM   1154  O   HOH    38      25.142  -5.771  45.614  1.00 26.44      W    O
ATOM   1155  O   HOH    39      30.887  -0.302  25.442  1.00 23.00      W    O
ATOM   1156  O   HOH    40       4.820  -6.534  41.400  1.00 31.67      W    O
ATOM   1157  O   HOH    41       9.887 -17.735  47.146  1.00 36.35      W    O
ATOM   1158  O   HOH    42       9.158 -17.635  19.174  1.00 36.16      W    O
ATOM   1159  O   HOH    43      18.786 -13.961  21.512  1.00 40.91      W    O
ATOM   1160  O   HOH    44       3.018 -24.555  35.165  1.00 29.97      W    O
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ATOM   1161  O   HOH    45       3.094 -14.994  42.210  1.00 30.48       W    O
ATOM   1162  O   HOH    46      22.131 -15.844  23.739  1.00 42.93       W    O
ATOM   1163  O   HOH    47      25.145 -24.579  28.319  1.00 31.69       W    O
ATOM   1164  O   HOH    48      15.193  -5.513  38.514  1.00 29.30       W    O
ATOM   1165  O   HOH    49      28.083  -0.158  39.578  1.00 34.20       W    O
ATOM   1166  O   HOH    50      32.155  -1.031  31.814  1.00 36.10       W    O
ATOM   1167  O   HOH    51      29.939  -0.881  37.843  1.00 30.11       W    O
ATOM   1168  O   HOH    52      15.194 -13.781  45.830  1.00 30.80       W    O
TER    1169      HOH    52                                               W
END
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Table 10 10342-012-999